

PROJECT:

JLTC- BUILDING #2

UTAH NATIONAL GUARD, JOINT LANGUAGE TRAINING CENTER

CAMP WILLIAMS, UTAH

CONSTRUCTION DOCUMENTS - APRIL 21, 2005

DFCM PROJECT NO. 05006480



State of Utah-Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

APPROVALS:

PRIME AGENCY _____ DATE _____

DFCM _____ DATE _____

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

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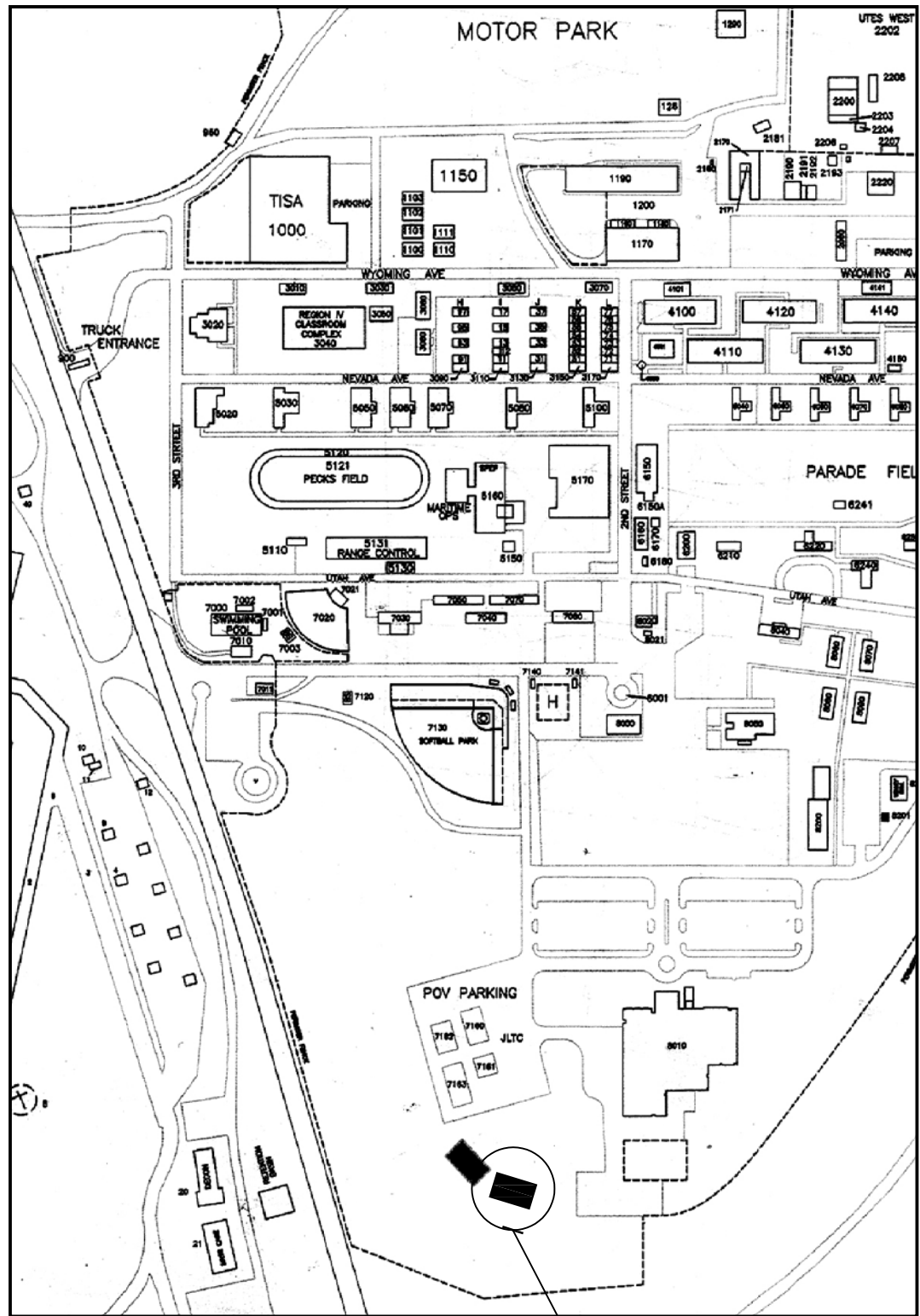
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VICINITY MAP
SCALE: 1"=0'

A5
G001

jsa architecture
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3115 e. lion lane suite 300
salt lake city utah 84121
801.278.8151 fax 801.278.8661

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UTAH NATIONAL
GUARD
JLTC

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BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

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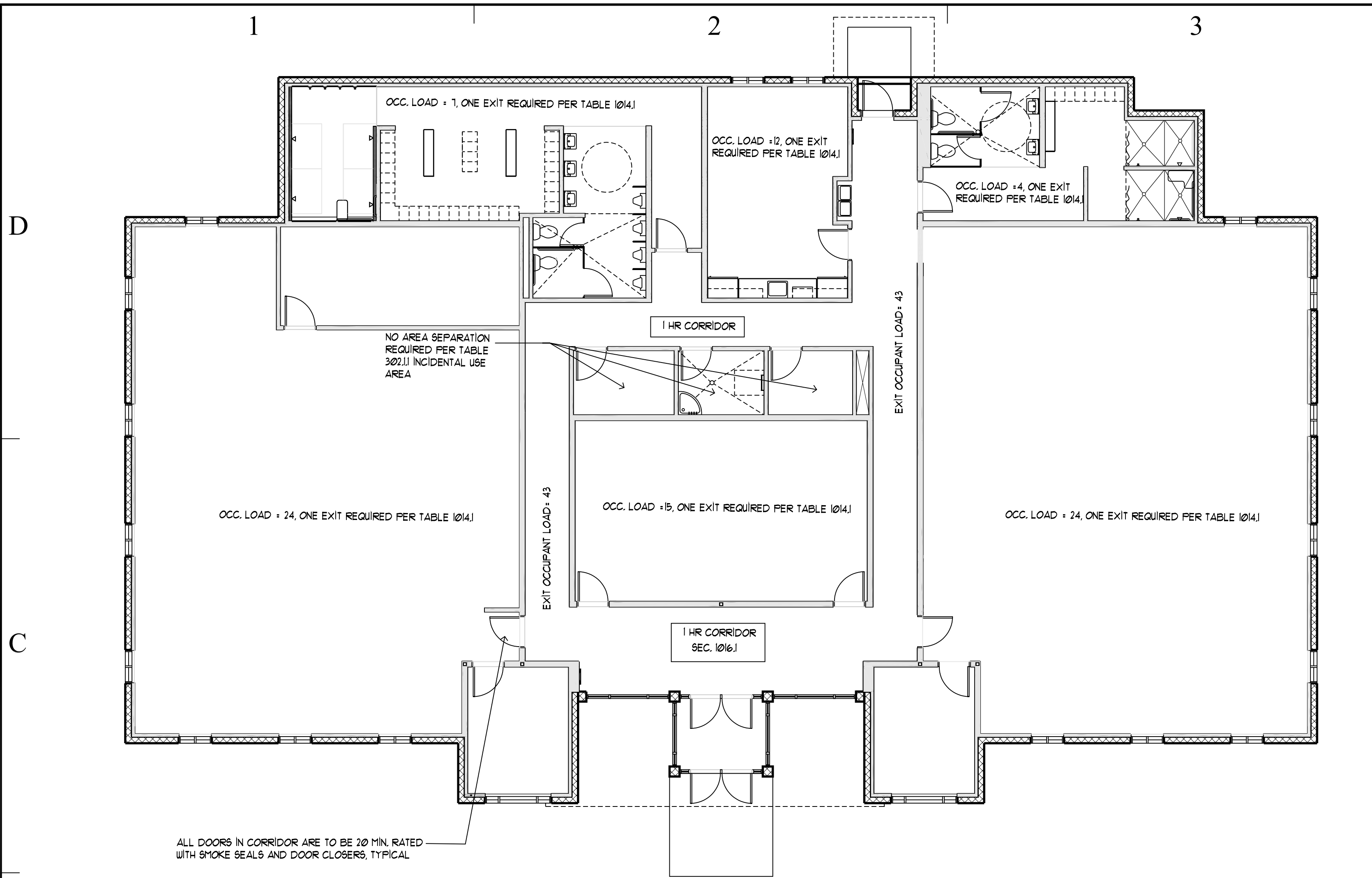
SHEET TITLE

COVER
SHEET

SHEET NUMBER


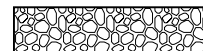
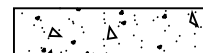

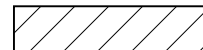
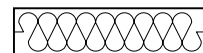

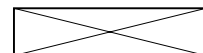


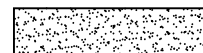
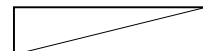

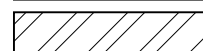















G-0 01

SHEET 001 OF 055



CODE REVIEW PLAN - MAIN FLOOR PLAN
SCALE: NTS = 1" = 20'

B1
G002

LEGENDS			
               	EARTH		FLOOR OR POINT ELEVATION
	GRAVEL		CENTER LINE
	CONCRETE		DIAMETER
	BRICK		KEY NOTE
	CONCRETE MASONRY UNIT		WALL TYPE
	BATT INSULATION		DOOR NUMBER
	RIGID INSULATION		WINDOW NUMBER
	ROUGH WOOD FRAMING		FIXTURE TAG
	FINISH WOOD		DETAIL
	PLYWOOD		BUILDING OR WALL ELEVATION
	SAND, MORTAR, GYPSUM BOARD		WALL SECTION
	WOOD BLOCKING		BUILDING SECTION
	ALUMINUM (LARGE SCALE)		INTERIOR ELEVATION
	STEEL (LARGE SCALE)		
	STEEL (SMALL SCALE)		
	BITUMINOUS PAVING		

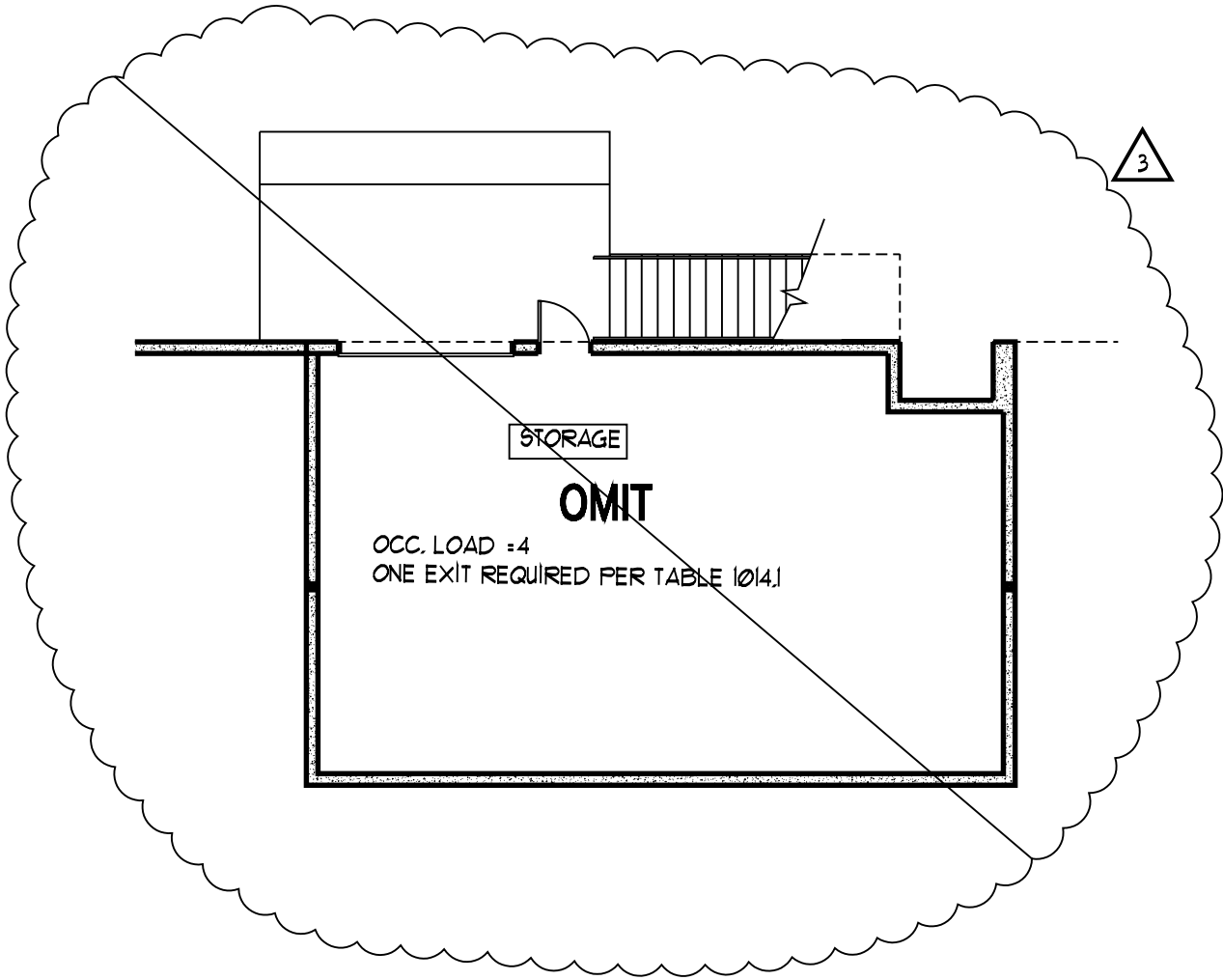
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ABBREVIATIONS			
A/C	AIR CONDITIONING	FDN.	FOUNDATION
ACoust.	ACOUSTICAL	FIN.	FINISH
ADD.	ADDENDUM	FLR.	FLOOR
ADJ.	ADJUSTABLE	FR.	FIRE RATED
ALLOU.	ALLOWANCE	FTG.	FOOTING
ALUM.	ALUMINUM	G.	GAS
APPROX.	APPROXIMATE	G.I.	GALVANIZED IRON
B.U.	BUILT-UP	GA.	GUAGE
B.W.	BOTH WAYS	GALV.	GALVANIZED
BLDG.	BUILDING	GRD.	GRADE
BLK.	BLOCK	GYP.BD.	GYPSUM BOARD
BRK.	BRICK	GL.B.	GLU-LAM BEAM
C.I.	CAST IRON	H.B.	HOSE BIB
C.J.	CONTROL JOINT	HD.	HEAD
CH.W.	CONCRETE MASONRY UNIT	HM.	HOLLOW METAL
CLG.	CEILING	HOR.	HORIZONTAL
COL.	COLUMN	ID.	INSIDE DIAMETER
COMP.	COMPACTED/COMPOSITE	INT.	INTERIOR
CONC.	CONCRETE	IRRIG.	IRRIGATION
CONST.	CONSTRUCTION	INSUL.	INSULATION
CONTR.	CONTRACTOR	J.B.	JAMB
CONTR.	CONTINUOUS	JNT.	JOINT
D.F.	DRINKING FOUNTAIN	M.R.	MOISTURE RESISTANT
DIA.	DIAMETER	MANFR.	MANUFACTURER
DIM.	DIMENSION	MAX.	MAXIMUM
DN.	DOWN	MECH.	MECHANICAL
DWG.	DRAWING	MIN.	MINIMUM
DTL.	DETAIL	(N)	NEW
EA.	EACH	N/C.	NOT IN CONTRACT
EF.	EXHAUST FAN	N.T.S.	NOT TO SCALE
E.J.	EXPANSION JOINT	O.C.	ON CENTER
ELEC.	ELECTRIC/ELECTRICAL	O.D.	OUTSIDE DIAMETER
ELEV.	ELEVATION	O.F.D.	OVERFLOW DRAIN
EQ.	EQUAL	OPNG.	OPENING
(E)	EXISTING	PLY.WD.	PLYWOOD
EXT.	EXTERIOR	PNT.	PAINT
F.D.	FLOOR DRAIN	PNTD.	PAINTED

CODE REVIEW PLAN - BASEMENT FLOOR PLAN
SCALE: NTS = 1" = 20'

B2
G002



CODE ANALYSIS & INFORMATION

BASED ON 2003 INTERNATIONAL BUILDING CODE

JLTC - CAMP WILLIAMS BUILDING #2

OCCUPANCY GROUP: B
CONSTRUCTION TYPE: VB
NO FIRE SPRINKLERS AS PER SECTION 903
BASIC ALLOWABLE AREAS (PER FLOOR) & HEIGHTS TABLE 503 9,000 s.f. 2 stories
SQUARE FOOTAGE: 7,600 s.f.
OCCUPANCY LOADS: 90 TOTAL
BASEMENT (503) NOT INCLUDED IN AREA SQUARE FOOTAGE.

GENERAL CONSTRUCTION NOTES

GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE MECHANICAL AND ELECTRICAL ENGINEERS DESIGNS TO FACILITATE CHASES, OPENINGS, PENETRATIONS, WALL THICKNESSES, DROP SOFFITS AND ALL OTHER REQUIREMENTS ENSURING THE PROPER INSTALLATION OF THE ELECTRICAL AND MECHANICAL SYSTEMS. G. C. TO ENSURE THAT ANY DISCREPANCIES AND/OR CHANGES BETWEEN THE ARCHITECTURAL, ELECTRICAL AND MECHANICAL SYSTEMS ARE TO BE COORDINATED THROUGH THE ARCHITECT. G. C. IS SOLEY RESPONSIBLE TO COORDINATE THESE REQUIREMENTS WITH THE SUB-CONTRACTORS AND DESIGN BUILD CONTRACTORS.

PROVIDE 1/4" PER FOOT SLOPE AT ALL EXTERIOR DOOR LANDINGS.

GENERAL CONTRACTOR IS RESPONSIBLE TO MEET ALL APPLICABLE BUILDING CODES, UBC, ANSI, ADDAG, IPC, IEC, AND LOCAL JURISDICTION HAVING AUTHORITY.

CONTRACTOR IS RESPONSIBLE FOR ALL DETAILS REGARDLESS OF THE PLACE ON THE DRAWINGS WHETHER REFERENCED OR NOT.

ARCHITECT IS SOLE INTERPRETER OF THE CONSTRUCTION DOCUMENT DRAWINGS

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salt lake city utah 84121
801.278.8151 fax 801.278.8661

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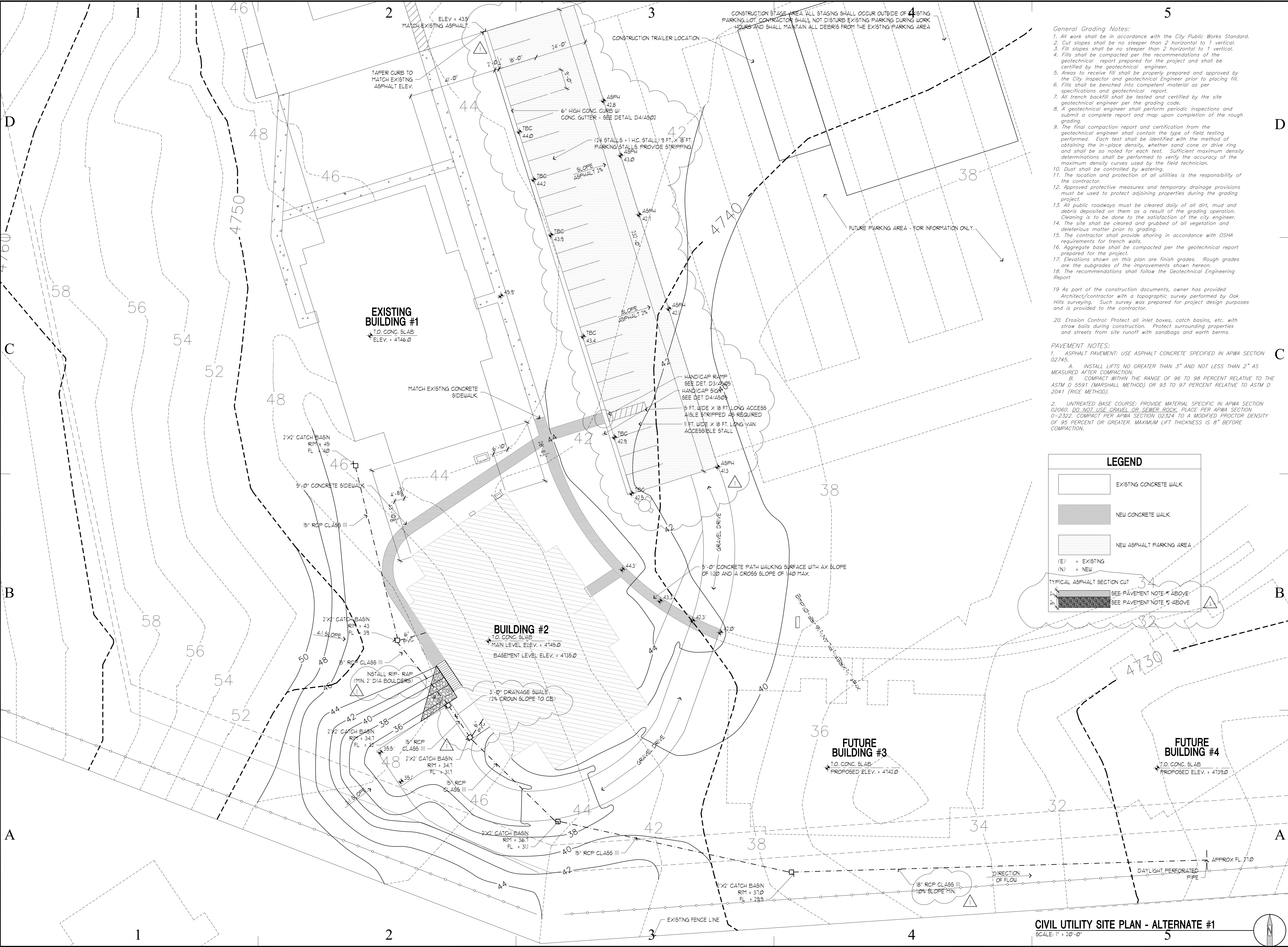
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CODE REVIEW
VICINITY MAP

SHEET NUMBER

G-0 02

SHEET 002 OF 055



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SHEET TITLE

ALTERNATE #1
GRADING PLAN

SHEET NUMBER

C-101A

SHEET 003 OF 055

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH DFCM STANDARDS.
2. CONTRACTOR AND APPLICABLE SUBCONTRACTORS SHALL ATTEND ALL PRE CONSTRUCTION CONFERENCES AND PERIODIC PROGRESS MEETINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS.
4. THE CONTRACTOR SHALL FAMILIARIZE HIM/HER SELF WITH THE PLANS, THE GEOLOGY REPORTS AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
5. ALL WORK SHALL COMPLY WITH THE AMERICAN PUBLIC WORKS ASSOCIATION UTAH CHAPTER (APWA) MANUAL OF STANDARD SPECIFICATIONS 2002 EDITION AND THE MANUAL OF STANDARD PLANS 2002 EDITION. SAID STANDARD SPECIFICATIONS AND PLANS SHALL BE SUBSIDIARY TO MORE STRINGENT REQUIREMENTS BY APPLICABLE LOCAL JURISDICTION.

- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MUTCD AND IN COMPLIANCE WITH STANDARD SPECIFICATION 01555 "TRAFFIC CONTROL".
7. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
 8. CONTRACTOR TO NOTIFY SURVEYOR 72 HOURS PRIOR TO NEED FOR ANY CONSTRUCTION STAKING.
 9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL PIPES, WALLS, ETC. ARE ADEQUATELY BRACED DURING CONSTRUCTION.
 10. ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

UTILITIES

11. CONTRACTOR TO SPACE UTILITIES TO PROVIDE MINIMUM DISTANCES AS REQUIRED BY LOCAL, COUNTY, STATE, AND INDIVIDUAL UTILITY CODES.
12. ALL UTILITIES ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND THESE DISTRICT STANDARDS.
WATER-CAMP WILLIAMS
SEWER-SEWER DISTRICT
STORM DRAIN/GROUNDWATER-CAMP WILLIAMS
ELECTRICAL- UTAH POWER
TELEPHONE- QWEST
GAS- QWESTAR
13. COORDINATE ALL SERVICE LATERAL AND BUILDING CONNECTIONS WITH CORRESPONDING ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWING FOR LOCATION AND ELEVATION. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE ENCOUNTERED.
14. ALL STORM DRAIN MANHOLES AND CATCH BASINS ARE TO BE PRE CAST CONCRETE FROM APPROVED LOCAL MANUFACTURER UNLESS OTHERWISE NOTED. BOTTOM OF BOX TO BE FREE DRAINING. ALL CATCH BASIN AND INLET BOX GRATES ARE TO BE BICYCLE PROOF.
15. ALL STORM WATER CONVEYANCE PIPING
10" PIPES OR SMALLER - POLYVINYL CHLORIDE (PVC) SEWER PIPE, ASTM D3034 TYPE PSM
12" PIPES OR LARGER - REINFORCED CONCRETE PIPE, ASTM C76, CLASS II
16. FIELD VERIFY ALL EXISTING AND /OR PROPOSED ROOF DRAIN/ROOF DRAIN DOWN SPOUT CONNECTIONS TO STORM WATER SYSTEM WITH CIVIL, PLUMBING & ARCHITECTURAL PLANS. NOTIFY ENGINEER OF ANY DISCREPANCIES.

SEWER

21. ALL SEWER LINE TO BE FLUSHED, PRESSURE TESTED TO 5 PSI VIDEO INSPECTED AND OTHERWISE TESTED IN ACCORDANCE WITH DISTRICT STANDARDS PRIOR TO PLACING IN SERVICE.
22. ALL SEWER LINES AND LATERALS ARE TO BE SDR 35 PVC PIPE.
23. SEWER MANHOLES, LATERALS AND CLEANOUTS TO BE INSTALLED PER IMPROVEMENT DISTRICT STANDARDS. MANHOLES TO STAMPED WITH THE DISTRICT NAME AS REQUIRED.

WATER

24. WATERLINES TO BE PVC C-900 PIPE. (MECHANICAL JOINTS REQUIRED WHEN LESS THAN 18" VERTICAL OR TEN FEET HORIZONTAL SEPARATION FROM SEWERLINE).
25. ALL WATERLINES SHALL BE 8" MINIMUM SIZE AND SERVICE LATERALS SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED. WATER LINES, VALVES, FIRE HYDRANTS, FITTINGS ETC. ARE TO BE CONSTRUCTED AS SHOWN. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ANY VERTICAL ADJUSTMENTS NECESSARY TO CLEAR SEWER, STORM DRAIN OR OTHER UTILITIES AS NECESSARY INCLUDING RAISED VALVE BOXES AND HYDRANT SPOOLS TO PROPER GRADE. FOR PIPE SIZES 3/4" TO 2" DIAMETER PIPE - COPPER TUBE ASTM B, TYPE K, SORT TEMPER FOR PIPES OVER 2" DIAMETER PIPE - AWWA C-900, CLASS 150.
26. WATER SERVICE LATERALS TO INCLUDE ALL BRASS SADDLE, CORP. STOP, LATERAL, DOUBLE CHECK VALVE AND BACKFLOW PREVENTION DEVICE. WATER METERS ARE TO BE INSTALLED PER CITY STANDARDS AND SPECIFICATIONS IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ALL ITEMS REQUIRED.
27. ALL WATERLINES SHALL BE MINIMUM 48" BELOW FINISH GROUND TO TOP OF PIPE. ALL VALVE BOXES AND MANHOLES SHALL BE RAISED OR LOWERED TO FINISH GRADE. (6" ABOVE GRADE IN UNPAVED AREAS WITH SOIL SLOPED UP TO RIM) AND SHALL INCLUDE A CONCRETE COLLAR IN PAVED AREAS.
28. CONTRACTOR TO NOTIFY ENGINEER FOR CHLORINE TEST PRIOR TO FLUSHING LINES. CHLORINE LEFT IN PIPE 24 HRS. MINIMUM WITH 25 PPM RESIDUAL. ALL TURNING OF MAINLINE VALVES, CHLORINATION, FLUSHING, PRESSURE TESTING, BACTERIA TESTING, ETC. TO BE COORDINATED WITH WATER DEPARTMENT. ALL TESTS TO BE IN ACCORDANCE WITH AWWA STANDARDS.
29. BOTTOM FLANGE OF FIRE HYDRANTS TO BE SET TO APPROXIMATELY 4" INCHES ABOVE BACK OF CURB ELEVATION.

EXISTING UTILITIES

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES SHOWN OR NOT SHOWN. THE EXISTENCE, LOCATION, AND CHARACTERISTICS OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE FACILITIES SHOWN AND ANY OTHER FACILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
31. CONTRACTOR SHALL CALL BLUE STAKES, OR OTHER AGENCY RESPONSIBLE FOR LINE LOCATIONS TWO WORKING DAYS PRIOR TO DIGGING.
32. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES TO BE JOINED, CROSSED, OR PARALLELED. ANY CONFLICT OR DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION. OTHERWISE, CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR ANY COSTS OF REPLACEMENT, RELOCATION, OR ADDITIONAL COSTS OF CONSTRUCTION.
33. ALL UTILITY MANHOLE RIMS, CATCH BASIN GRATES AND VALVE BOX COVERS ARE TO BE ADJUSTED TO FIT THE FINISHED GRADE OF THE SITE AND INCLUDE CONC. COLLAR IN PAVED AREAS.
34. ALL PROPOSED ELEVATIONS SHOWN ON THE DRAWING PLAN ARE TO FINISHED SURFACE. THE CONTRACTOR IS RESPONSIBLE TO DEDUCT THE THICKNESS OF THE PAVEMENT STRUCTURAL SECTION FOR TOP OF SUB GRADE ELEVATIONS.
35. IF AT ANY TIME DURING CONSTRUCTION ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, WORK IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED FROM THE ENGINEER.
36. ALL DELETERIOUS MATERIAL, SUCH AS LUMBER, LOGS, BRUSH, OR ANY OTHER ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL.

EROSION

37. UNSUITABLE MATERIAL, SUCH AS TOP SOIL, WEATHERED BED ROCK, ETC., SHALL BE REMOVED AS REQUIRED BY THE SOILS ENGINEER (AND/OR ENGINEERING GEOLOGIST, WHERE EMPLOYED) FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
38. NO TREES SHALL BE REMOVED OR DAMAGED WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM PROPERTY OWNER.
39. CONTRACTOR SHALL INSTALL EROSION CONTROLS (SILT FENCES, STRAW BALES, ETC) AS REQUIRED BY REGULATORY AGENCIES. SAID CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH AGENCY STANDARDS AND FOLLOWING BEST MANAGEMENT PRACTICES FOR ACTUAL PLACEMENT ON SITE. EROSION CONTROLS SHOWN ON THESE DRAWINGS ARE INTENDED AS A MINIMUM REQUIREMENT. ADDITIONAL CONTROLS REQUESTED BY AGENCY INSPECTORS SHALL BE REQUIRED.
40. ALL RECOMMENDATIONS MADE BY THE SOILS ENGINEER CONTAINED IN THE GEOTECHNICAL INVESTIGATION CONSULTANTS INC. SHALL BE REQUIRED AS PART OF THESE CONSTRUCTION PLANS.
41. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
42. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
43. NATURAL GROUND MAY HAVE BEEN MODIFIED SINCE THESE PLANS WERE PRODUCED.

COMPACTION

44. ALL CONSTRUCTION WORK IN UDOT RIGHT-OF-WAY SHALL BE SUBJECT TO INSPECTION BY THE STATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT INSPECTIONS TAKE PLACE WHERE AND WHEN REQUIRED AND TO INSURE THAT ALL WORK IS COMPLETED TO UDOT STANDARDS.
45. FILLS IN EXCESS OF 4 FEET IN THICKNESS AND BENEATH ALL FOUNDATIONS OR PAVEMENT SECTIONS SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 COMP ACTION CRITERIA. ALL OTHER STRUCTURAL FILL LESS THAN 4 FEET IN THICKNESS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF THE ABOVE CRITERIA. ADDITIONAL COMPACTION MAY BE REQUIRED BY THE GEOTECHNICAL OR STRUCTURAL ENGINEER.
46. COMPACTION TESTING SHALL BE ACCOMPLISHED BY THE CONTRACTOR, OR THE CONTRACTOR WILL HAVE SUCH TESTING ACCOMPLISHED BY A SEPARATE CONTRACTOR. TEST RESULTS WILL BE SUBMITTED FOR REVIEW WITHIN 24 HOURS AFTER TEST.
47. CONTRACTOR TO SUBMIT PROCTOR AND/OR MARSHALL DATA 24 HOURS PRIOR TO TEST.
48. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON PLANS.
49. ALL SLOPES ADJOINING STREETS, DRAINAGE CHANNELS, OR OTHER FACILITIES SHALL BE GRADED NO STEEPER THAN 2 (H) TO 1 (V) FOR CUT AND FILL.
50. UNLESS OTHERWISE SPECIFICALLY CALLED OUT, NO EARTH SLOPES SHALL EXCEED FOUR FEET IN HEIGHT WITHOUT RETAINING WALLS. NO RETAINING WALLS SHALL EXCEED SIX FEET WITHOUT TERRACING. NO TERRACED WALLS SHALL EXCEED TWELVE FEET IN TOTAL HEIGHT.



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CONSULTANTS:

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
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△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

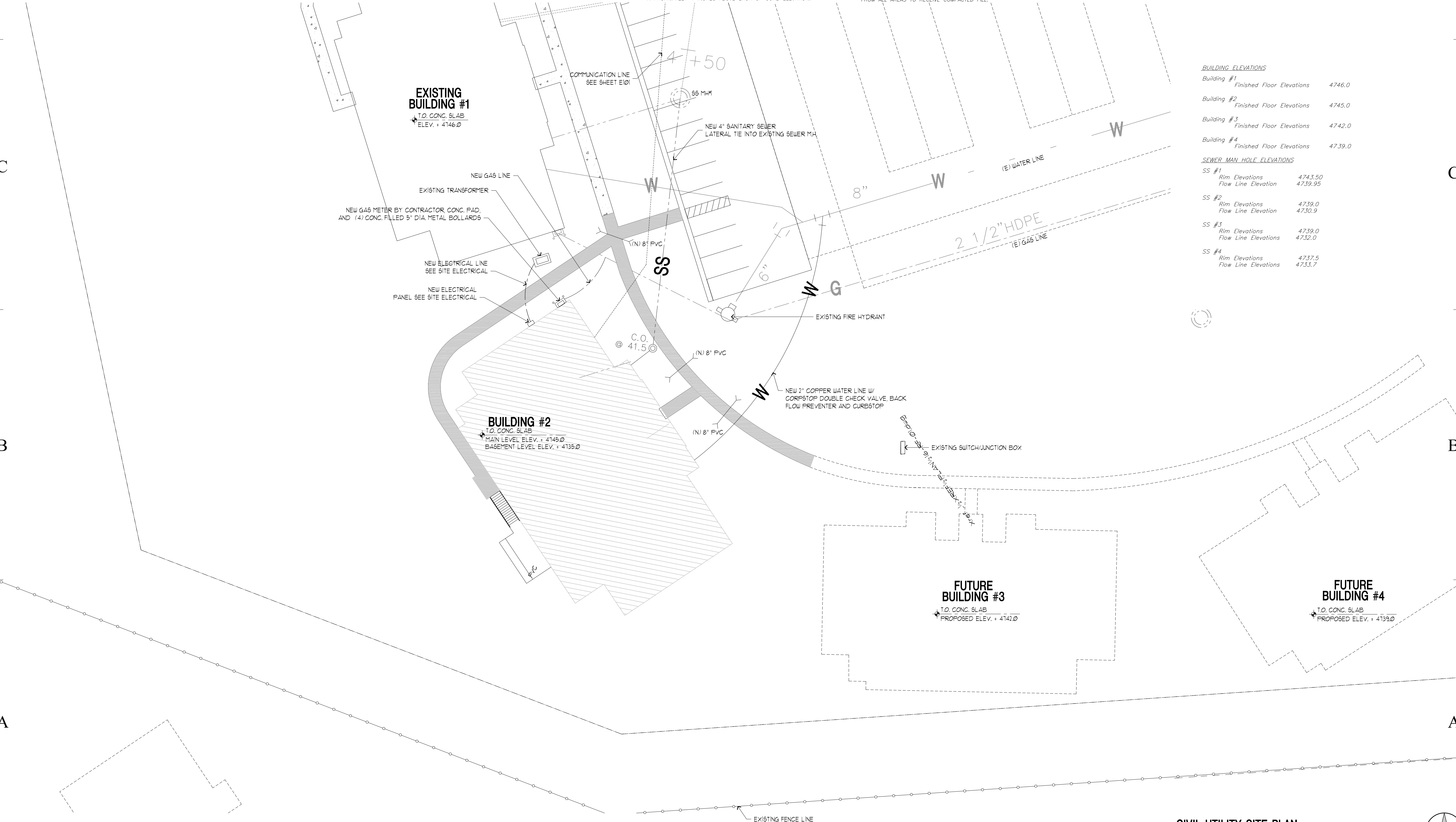
DFCM PROJECT NO: 05006480
CAD PROJECT NO: 0516
CAD DWG FILE:
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SHEET TITLE

CIVIL
UTILITY PLAN

SHEET NUMBER

C-102

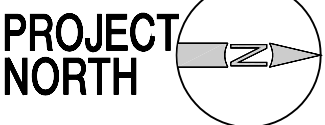
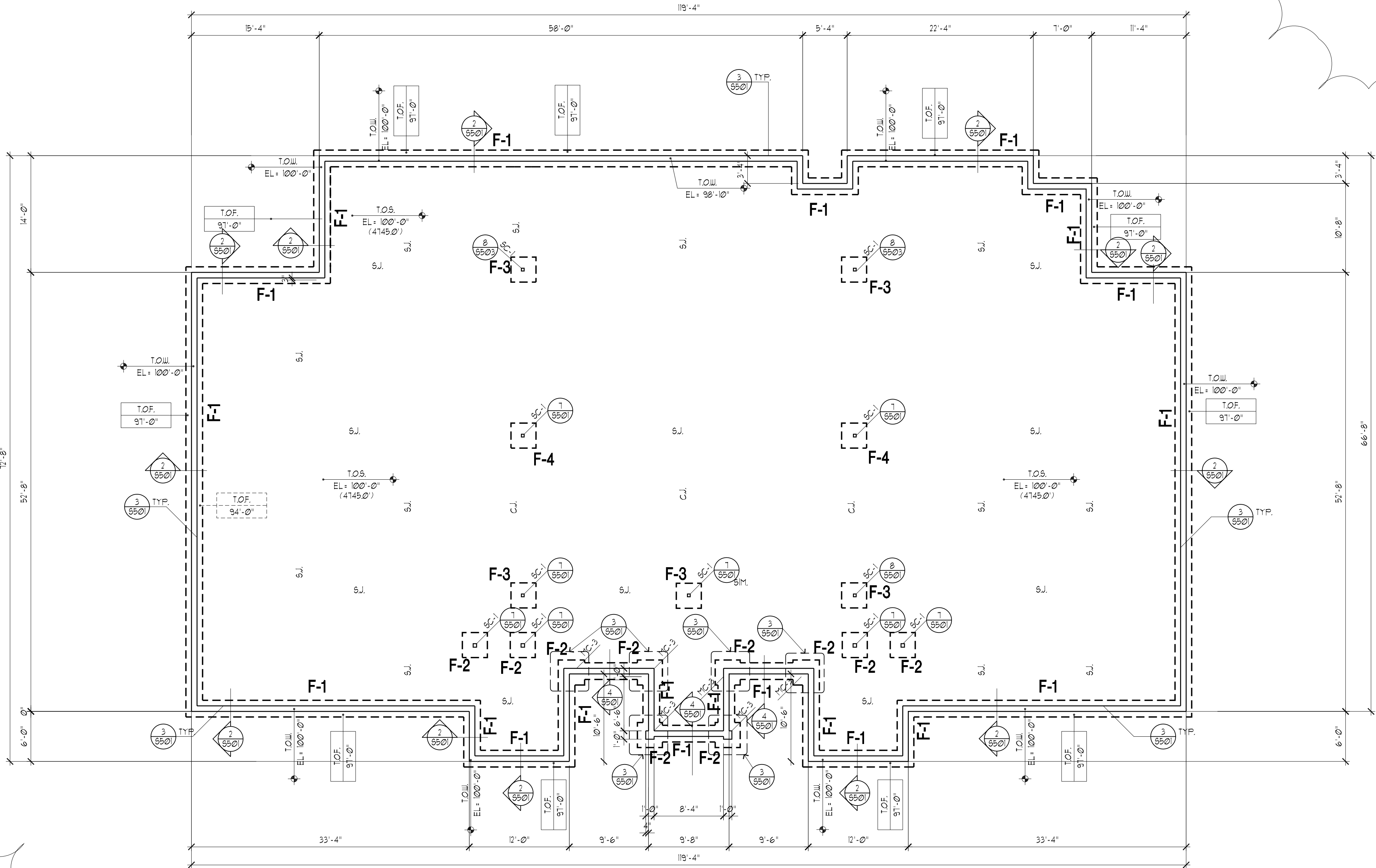
SHEET 004 OF 055



CIVIL UTILITY SITE PLAN

SCALE: 1" = 10'-0"

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3



FOOTING AND FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

1

S101

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	LONGITUDINAL REINFORCEMENT				CROSSWISE REINFORCEMENT			
				NO.	SIZE	LENGTH	SPACING	NO.	SIZE	LENGTH	SPACING
F-1	2'-0"	CONT.	12"	-	-	-	-	3	#4	CONT.	EQ.
F-2	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ.	3	#5	2'-6"	EQ.
F-3	4'-0"	4'-0"	12"	5	#5	3'-6"	EQ.	5	#5	3'-6"	EQ.
F-4	4'-6"	4'-6"	12"	5	#5	4'-0"	EQ.	5	#5	4'-0"	EQ.

STEEL COLUMN
SCHEDULE

MARK	COLUMN TYPE AND SIZE
SC-1	TS 4 X 4 X 1/4"

LEGEND

T.O.W.	TOP OF WALL
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF SLAB
T.O.F.	TOP OF FOOTING
100'-0"	TAG FOR BASE BID BASEMENT

TYPICAL FOUNDATION WALL TO BE 8" THICK UNLESS NOTED OTHERWISE
SEE FOUNDATION WALL REINFORCEMENT SCHEDULE FOR REINFORCEMENT.

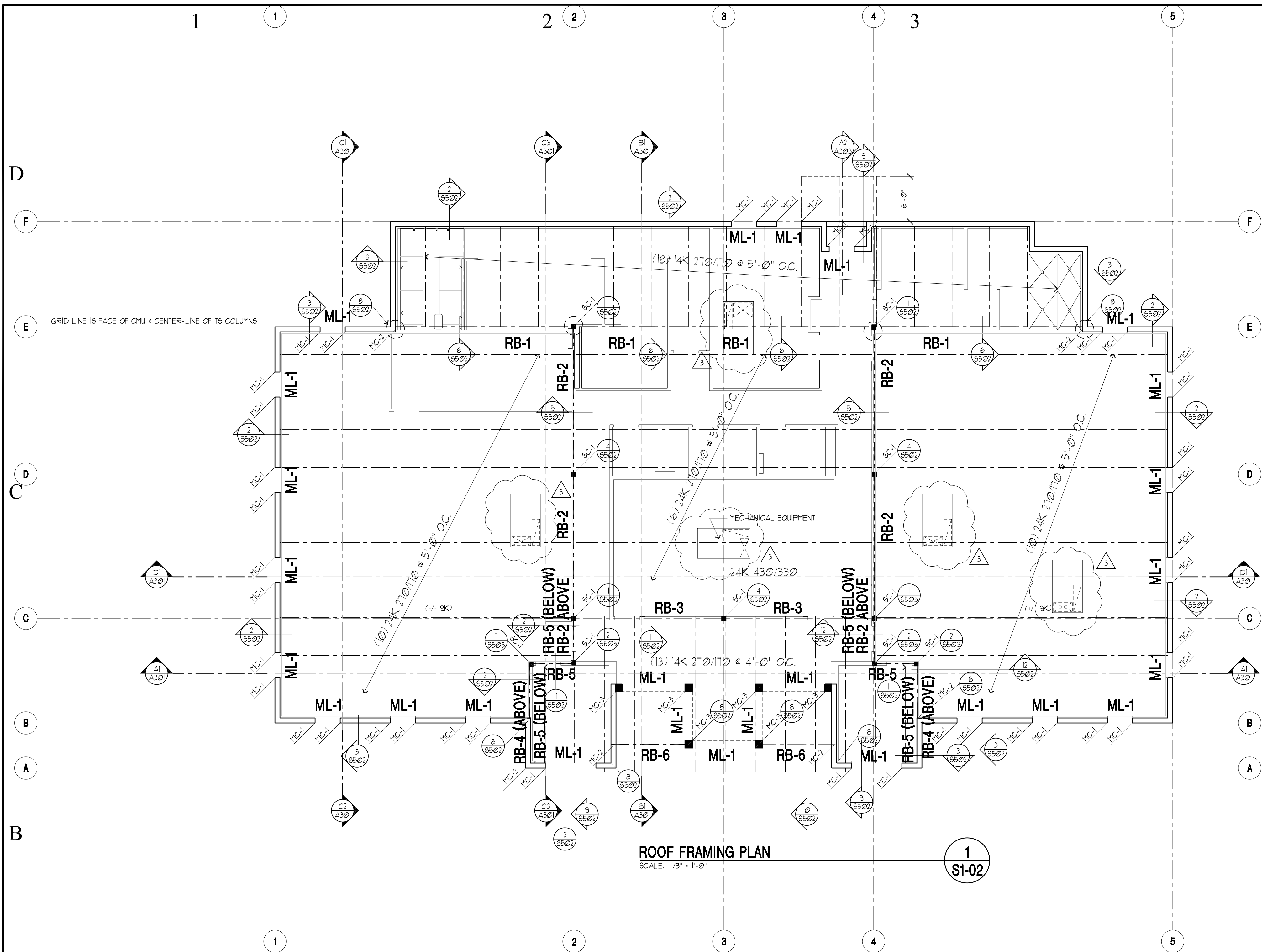
FOUNDATION WALL REINFORCEMENT SCHEDULE

WALL THICKNESS	SIZE	VERTICAL REINFORCEMENT		HORIZONTAL REINFORCEMENT		REMARKS
		SPACING	LOCATION	SPACING	LOCATION	
UP TO 8'-0"	8"	#4	16" O/C	#4	12" O/C	CENTER
UP TO 10'-0"	8"	#5	16" O/C	#4	12" O/C	CENTER

STRUCTURAL NOTES

- NOTES:
- SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES FOR DIMENSIONS NOT PROVIDED. SEE ARCHITECTURAL DRAWINGS.
 - C.J. DENOTES CONSTRUCTION JOINT. SEE DETAIL 1/5501.
 - S.J. DENOTES SAWED JOINT. SEE DETAIL 1/5501.
 - F-1 DENOTES FOOTING SIZE. SEE SCHEDULE SHEET S201.
 - MC-1 DENOTES MASONRY COLUMN. SEE DETAIL 1/5501.
 - HATCHING INDICATES MASONRY WALLS. XXXXXXXXXXXXXXXX
 - WHERE WALL EXPANSION JOINT OCCURS, RUN BOND BEAM @ TOP CONTINUOUS THROUGH JOINT. SEE DETAIL 6/5501 FOR MASONRY WALL CONTROL JOINT.
 - TOP OF SLAB ELEVATION = 100'-0" UNLESS NOTED OTHERWISE. T.O.S. ON PLAN.
 - INTERIOR SLAB ON GRADE SHALL BE 4" CONCRETE REINFORCED WITH 6X6 W 14 X W/4 W/4 OVER 4" FREE DRAINING GRAVEL. SEE PLAN FOR EXTERIOR S.O.G.
 - CENTER FOOTINGS ON WALL AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
 - ALL FOOTINGS SHALL BARE ON SUITABLE NATURAL SOILS OR 2'-0" OF COMPACTED STRUCTURAL FILL.

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTE:

1. TYPICAL METAL DECKING TO BE 1 1/2" 20 GA METAL "B" DECK
2. METAL JOIST SUPPLIER MUST INCORPORATE THE LOADS OF THE ROOF-TOP MECHANICAL EQUIPMENT SHOWN FOR THE FINAL DESIGN LOADING. SEE ROOF PLAN SHT. A-104 FOR POUNDS.

FRAMING
LEGEND

	ROOF FRAMING OVER BUILD
	INTERIOR BEARING WALLS
	SHEAR WALLS AS PER SCHEDULE

STEEL COLUMN
SCHEDULE

MARK	COLUMN TYPE AND SIZE
SC-1	TS 4 X 4 X 1/4"
SC-2	-
SC-3	-

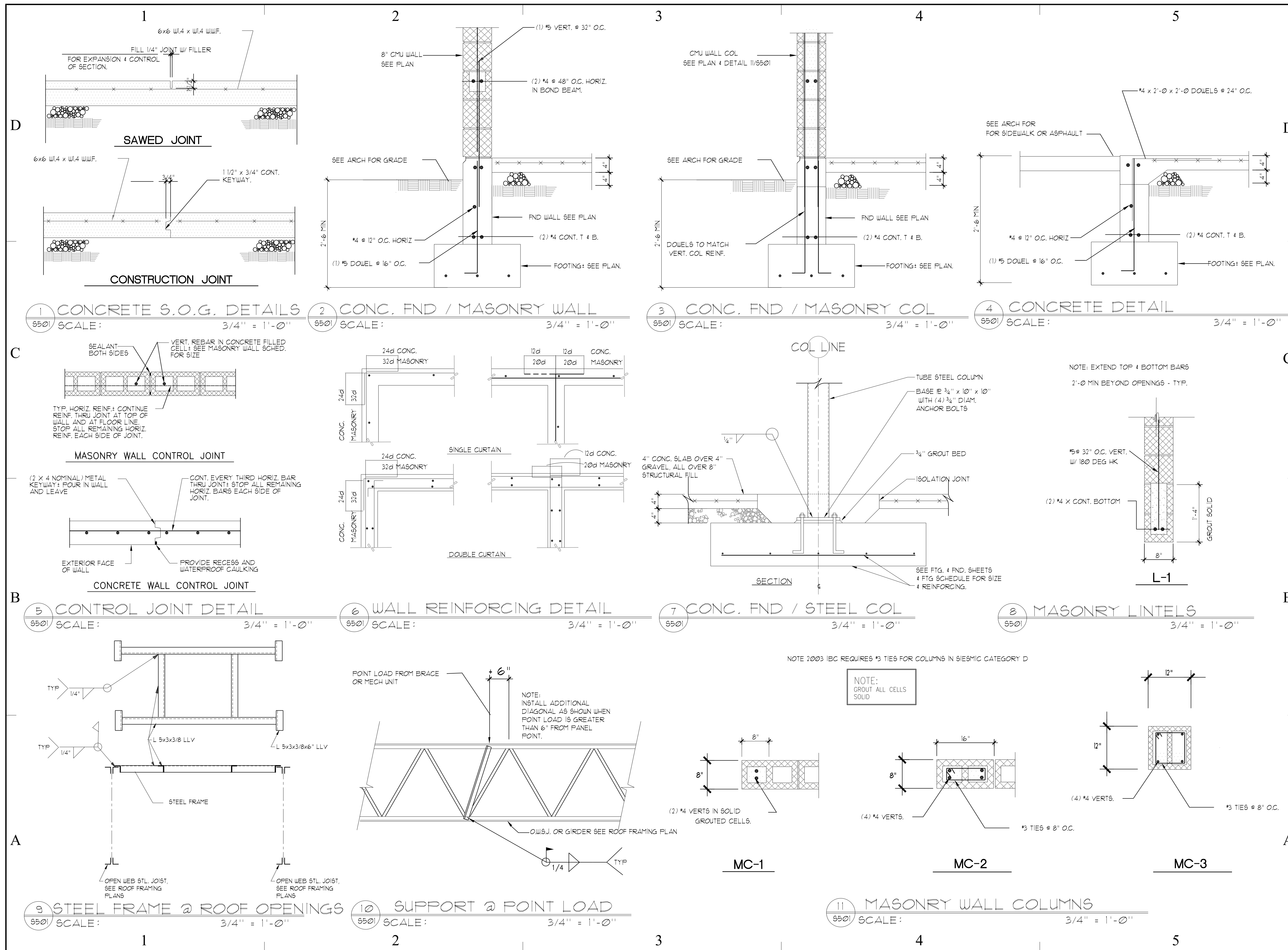
BEAM
SCHEDULE

MARK	BEAM TYPE AND SIZE
RB-1	W6 X 31
RB-2	W8 X 35
RB-3	W8 X 35
RB-4	W10 X 22
RB-5	W10 X 22
RB-6	W8 X 18

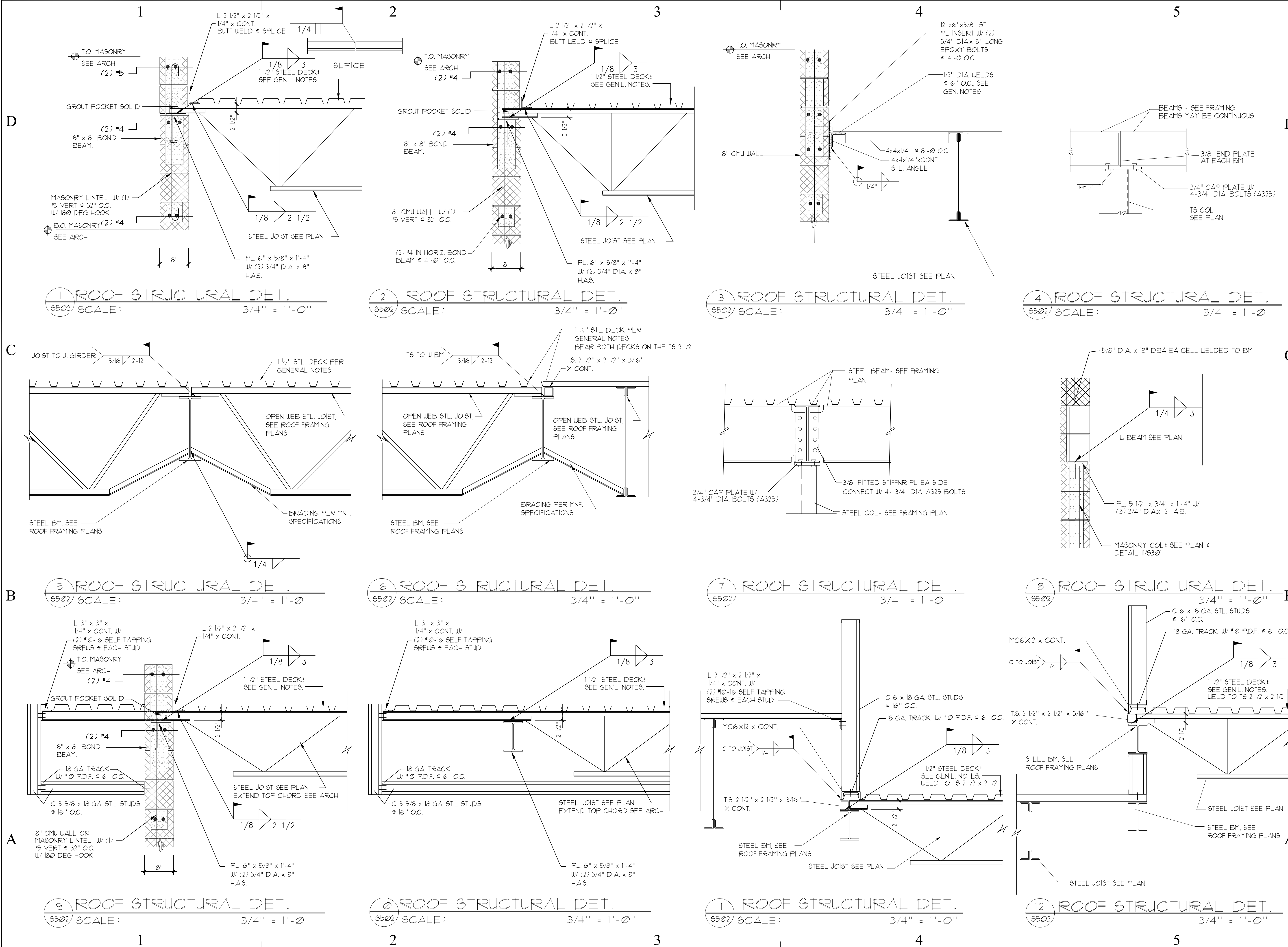
STRUCTURAL NOTES

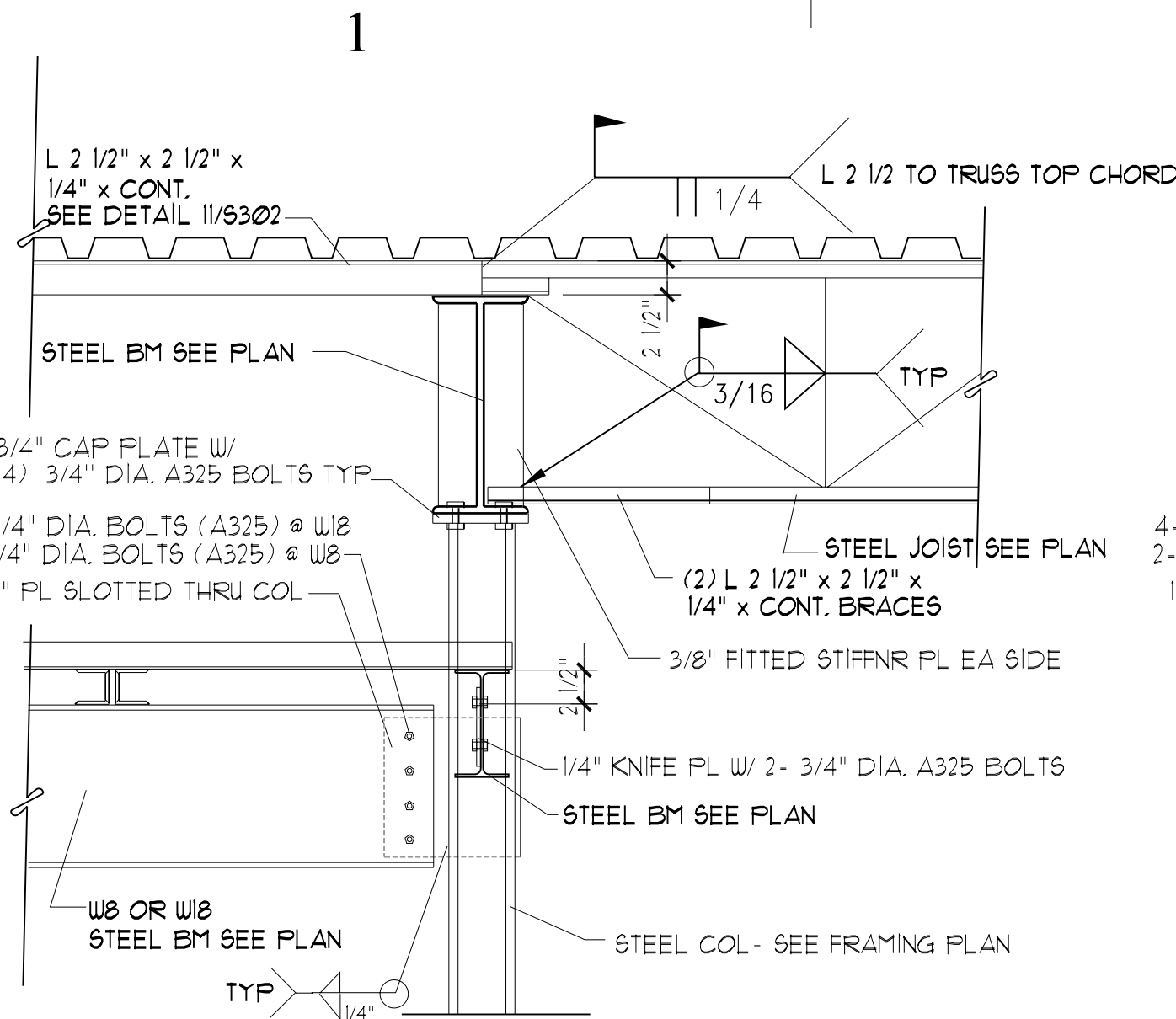
- NOTES:
1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES FOR DIMENSIONS NOT PROVIDED. SEE ARCHITECTURAL DRAWINGS.
 2. MC-1 DENOTES DENOTES MASONRY COLUMN. SEE DETAIL 11/5501.
 3. ML-1 DENOTES MASONRY LINTEL. SEE DETAIL 8/5501.
 4. WHERE WALL EXPANSION JOINT OCCURS, RUN BOND BEAM @ TOP CONTINUOUS THRU JOINT.
 5. ROOF DECK SHALL BE 1/2" VERCO TYPE HSB-36, 20 GAUGE PAINTED OR EQUIVALENT, PLACE 3 SPANS CONTINUOUS MINIMUM. SEE GENERAL NOTES FOR ATTACHMENT.
 6. HATCHING INDICATES MASONRY WALLS. XXXXXXXXXXXXXXXX
 7. SEE DETAIL 9/5501 FOR TYPICAL ROOF OPENING DETAIL.
 8. ALL CONTINUOUS DECK ANGLES TO BE BUILT WELDED AT SPLICES.
 9. SEE SHEET A203 FOR DECK BEARING ELEVATION. ADJUST TOP OF FRAMING TO PROVIDE UNIFORM SLOPE BETWEEN ELEVATIONS SHOWN ON PLAN.
 10. SEE DETAIL 10/5501 FOR JOIST REINFORCING FOR POINT LOADS.
 11. STEEL STUD WALLS SHALL BE 6" X 18" GA. STEEL STUD @ 16" O.C.
 12. OPEN WEB STEEL JOISTS SHALL BE DESIGNED TO CARRY THE ADDITIONAL LOADS FROM MECHANICAL UNITS SHOWN ON THE PLAN.
 13. +/- DENOTES TOP OF CHORD POSITIVE OR NEGATIVE AXIAL FORCE.

MARK	DATE	DESCRIPTION

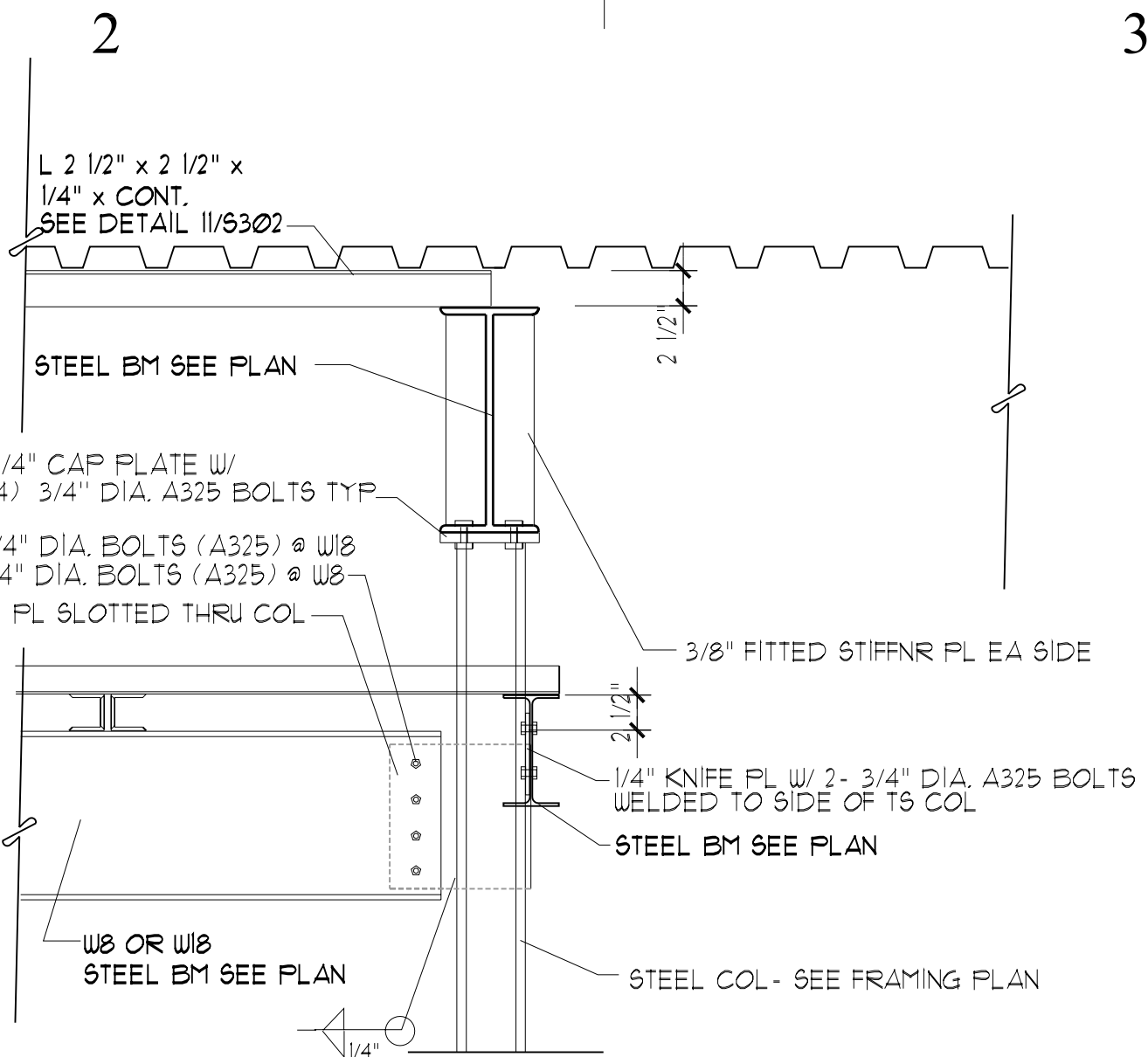


MARK	DATE	DESCRIPTION

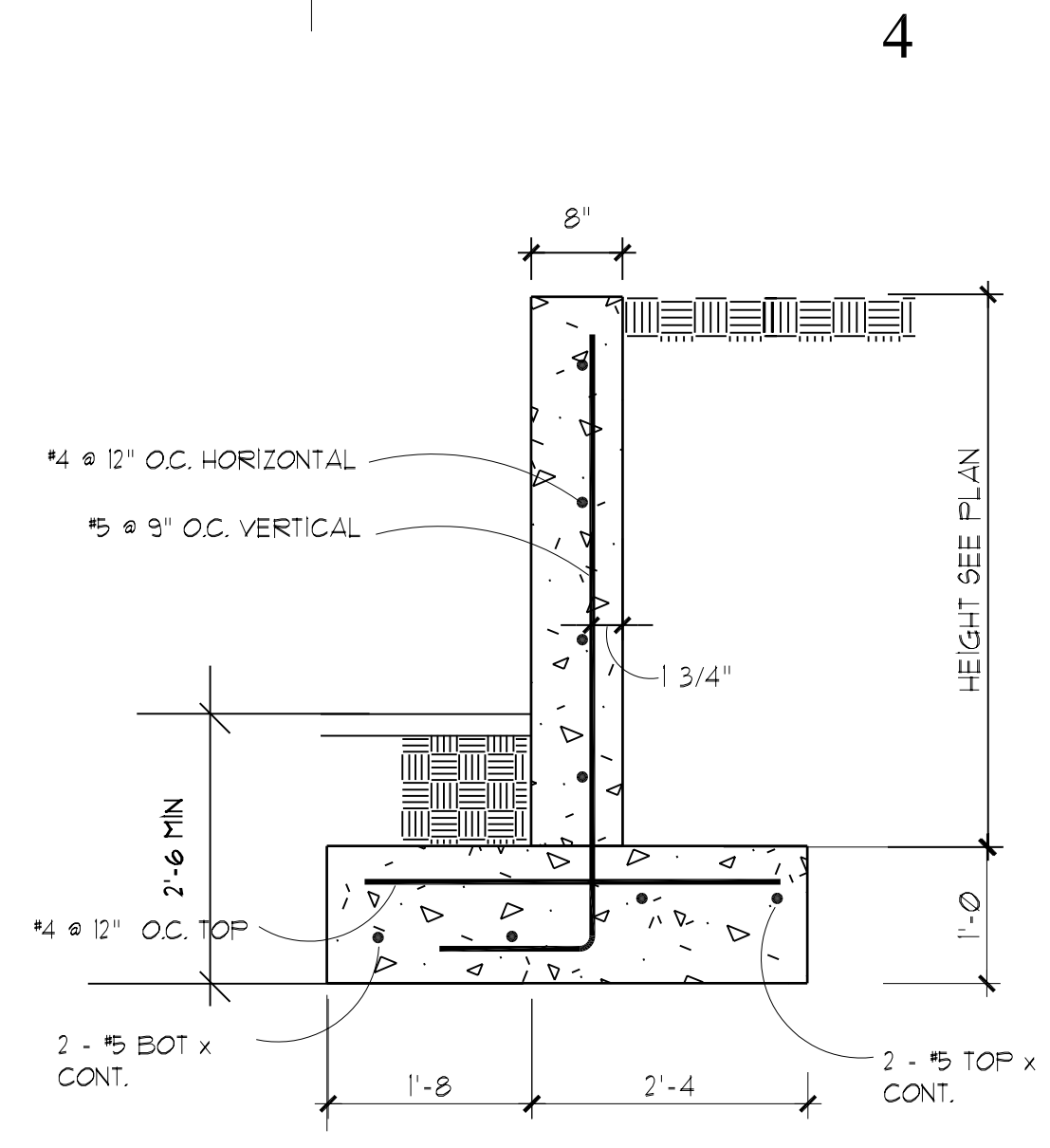




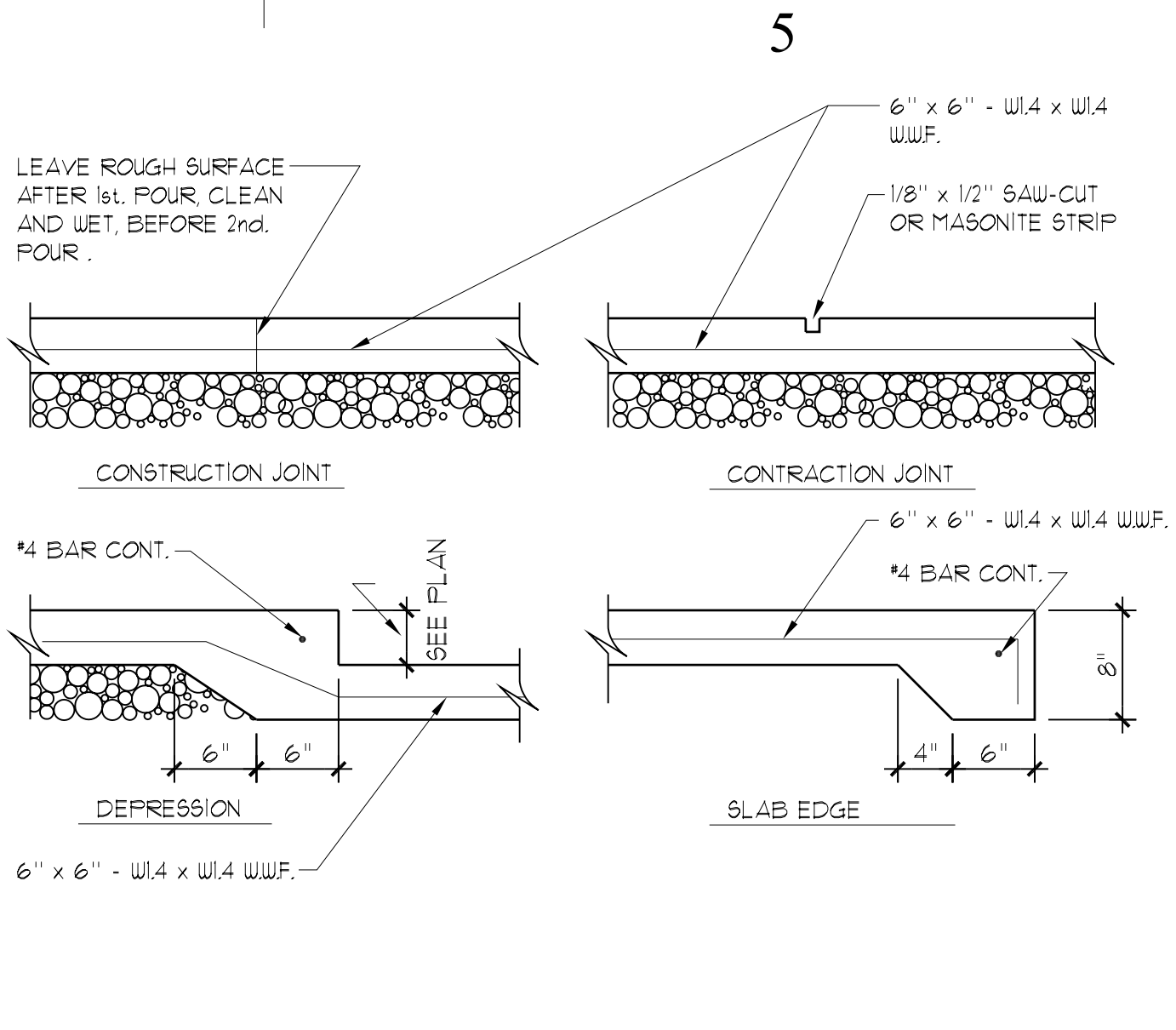
1 ROOF STRUCTURAL DET.
SCALE: 3/4" = 1'-0"



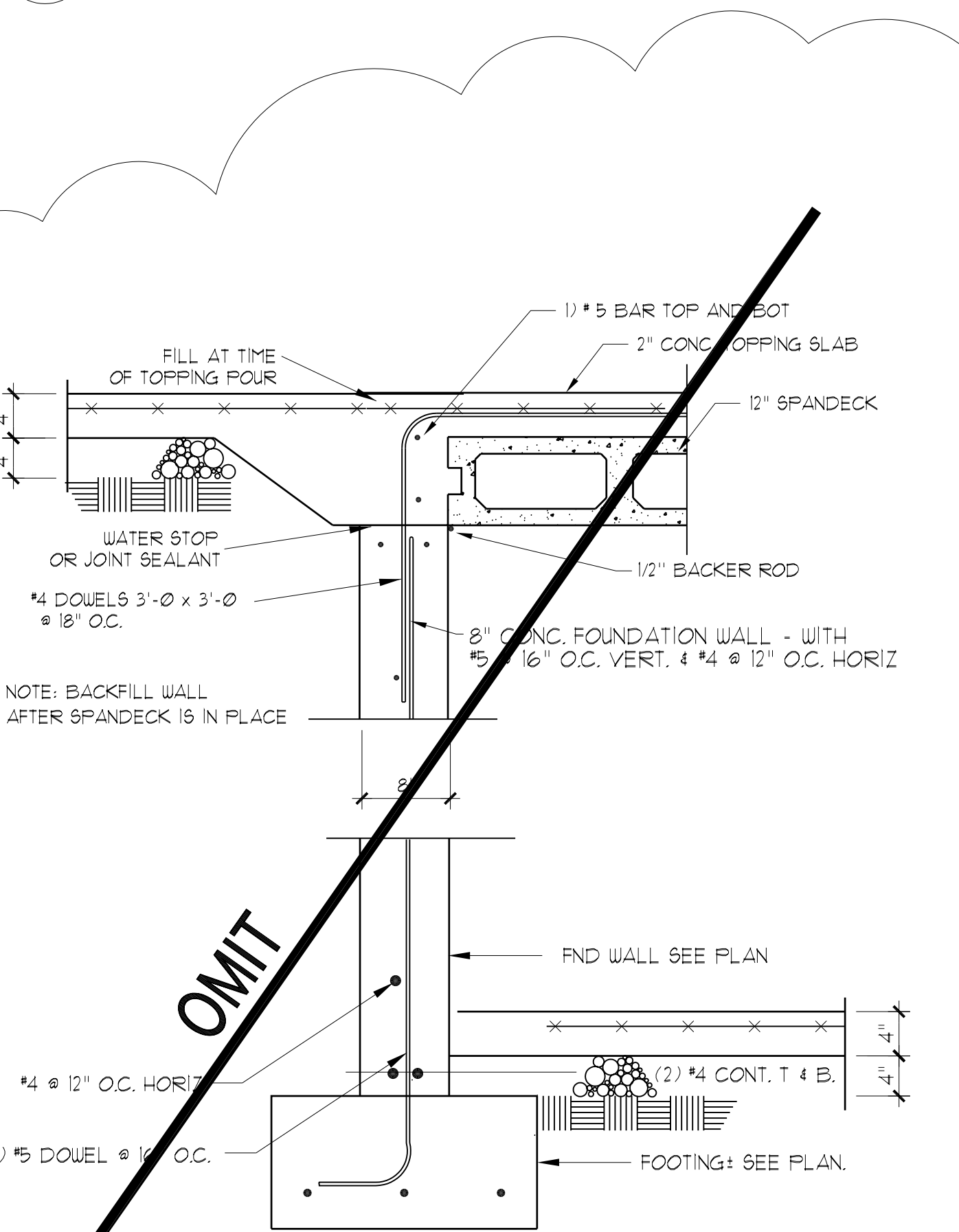
2 ROOF STRUCTURAL DET.
SCALE: 3/4" = 1'-0"



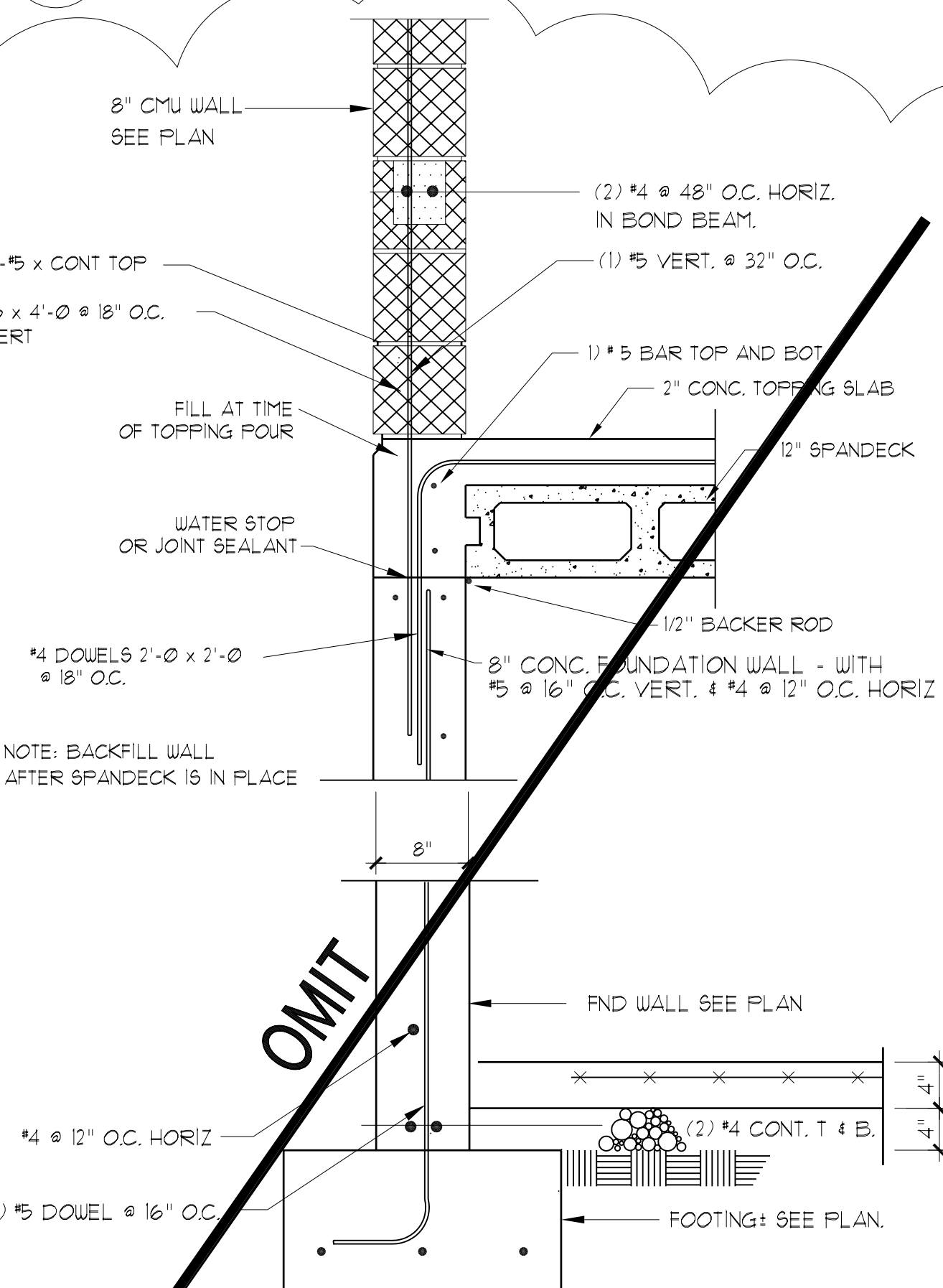
3 RETAINING WALL DET.
SCALE: 3/4" = 1'-0"



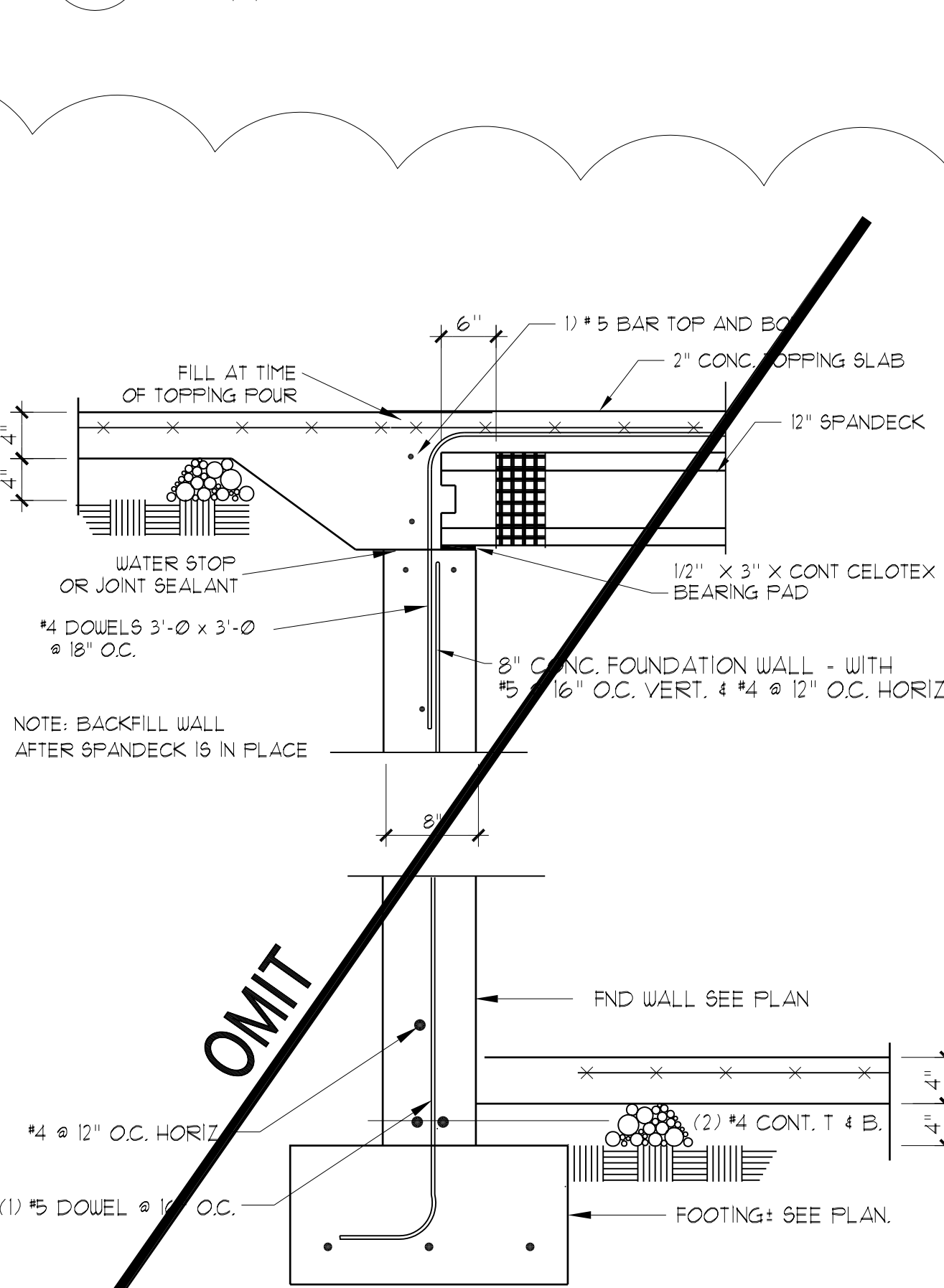
4 ROOF STRUCTURAL DET.
SCALE: 3/4" = 1'-0"



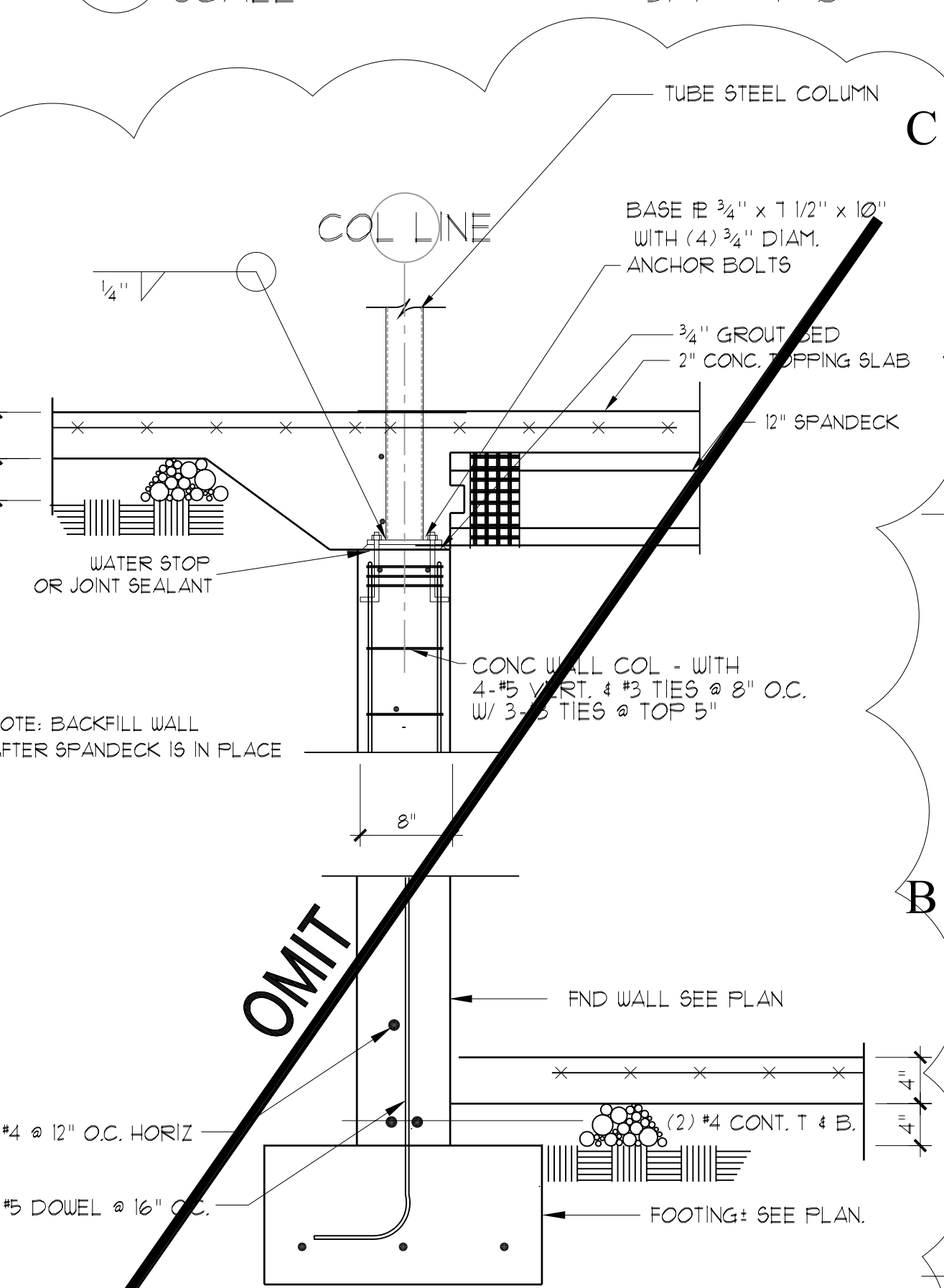
5 SPAN DECK DET.
SCALE: 3/4" = 1'-0"



6 SPAN DECK DET.
SCALE: 3/4" = 1'-0"



7 SPAN DECK DET.
SCALE: 3/4" = 1'-0"



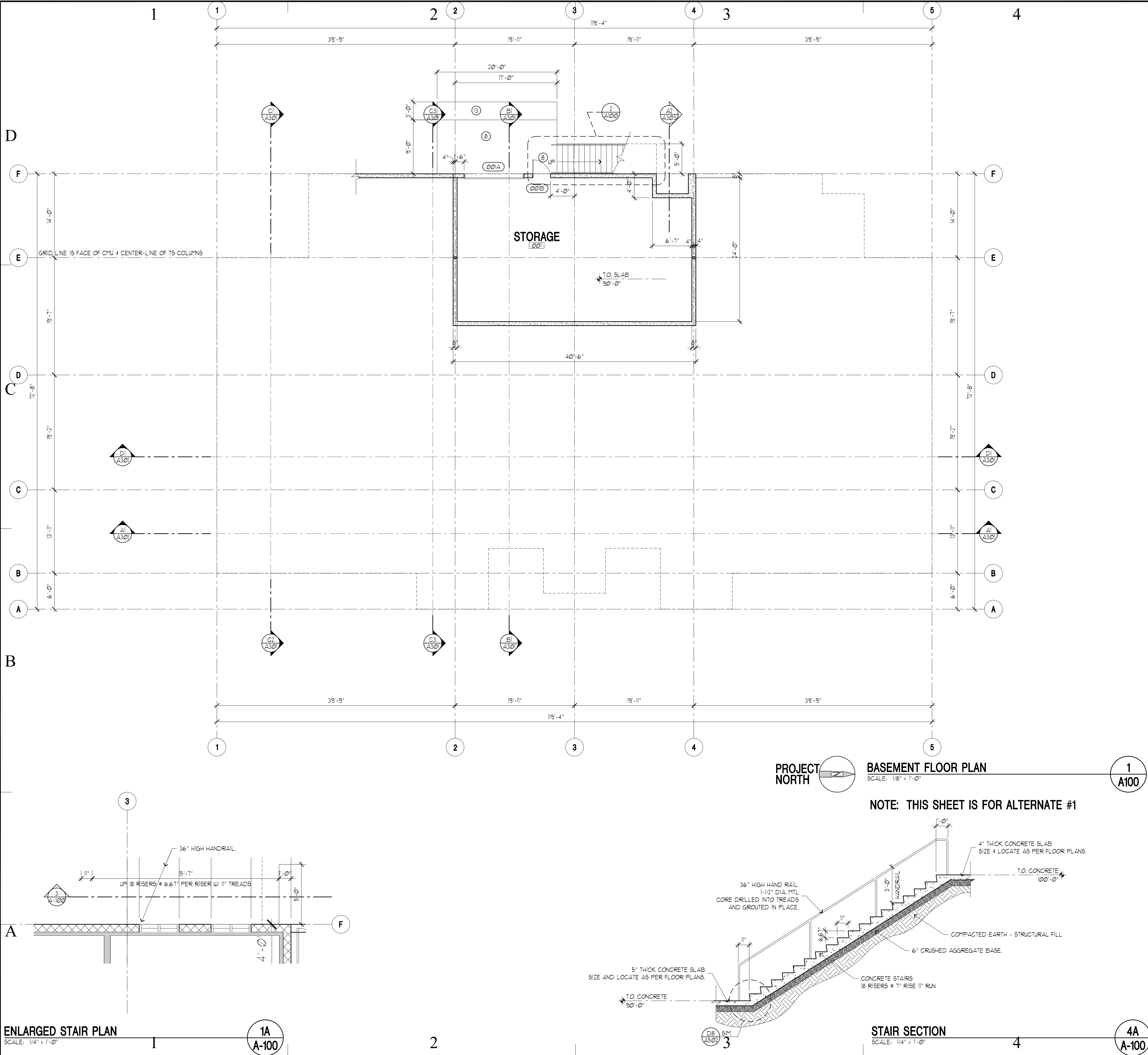
8 SPAN DECK DET.
SCALE: 3/4" = 1'-0"

9 NOT USED
SCALE: 3/4" = 1'-0"

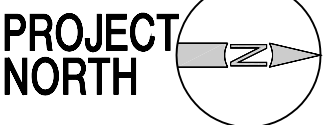
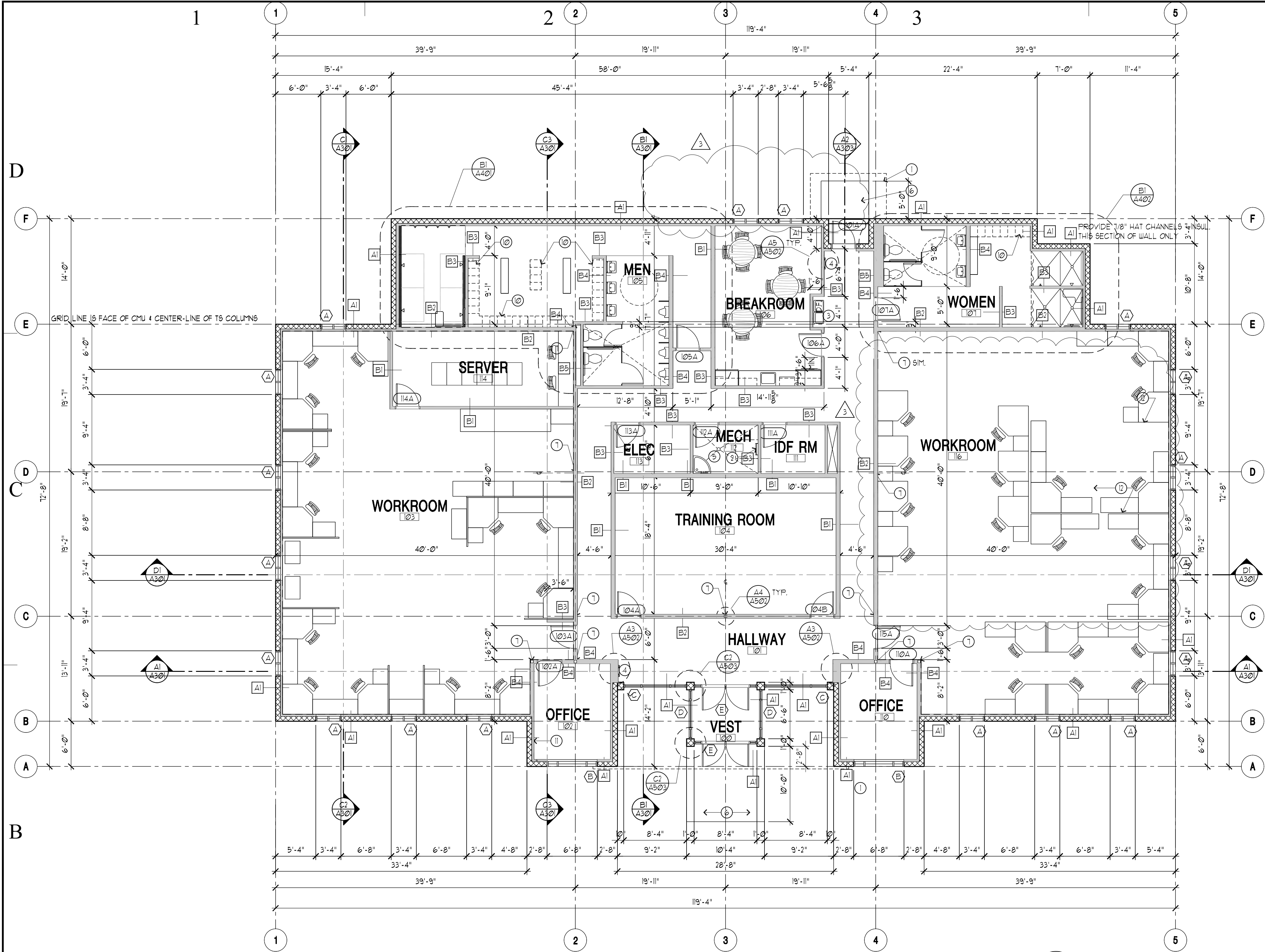
10 NOT USED
SCALE: 3/4" = 1'-0"

11 NOT USED
SCALE: 3/4" = 1'-0"

12 NOT USED
SCALE: 3/4" = 1'-0"



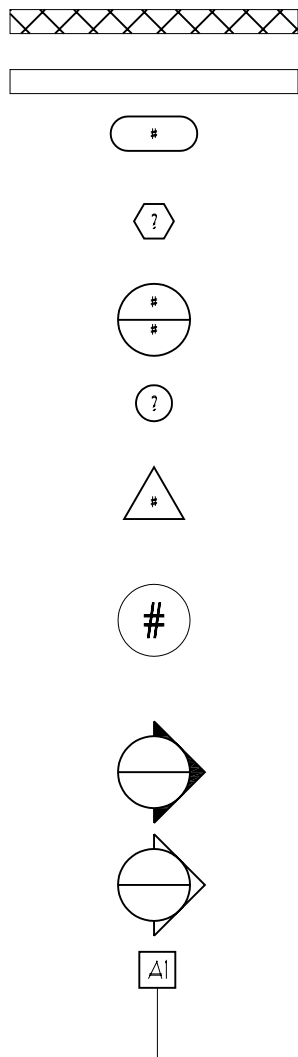
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△	6/3/05	ADDENDA #3



FLOOR PLAN
SCALE: 1/8" = 1'-0"

1
A101

LEGEND- FLOOR PLANS ONLY



CONCRETE MASONRY WALL
METAL STUD WALL
DOOR TAG
-SEE SCHEDULE ON
WINDOW TAG
-SEE SCHEDULE ON
DETAIL TAG
KEY NOTE TAG
REVISION TAG
BUILDING GRID TAG
TO CENTER LINE OF STEEL
COLUMN OR FACE OF CMU,
UNLESS NOTED OTHERWISE
BUILDING SECTION TAG
WALL SECTION TAG
WALL TYPE TAG
AI FOR EXAMPLE, REFERS
TO WALL TYPE NOTED,
NOT DETAIL TAG

KEY NOTES

- DASHED LINE INDICATES ROOF CANOPY ABOVE - SEE ROOF PLAN - SHEET A104
- ROOF LADDER - SEE DETAIL A5/A504
- HIGH LOW WATER COOLER
- FIRE EXTINGUISHER CABINET - SEE DETAIL A5/A502. PROVIDE A CLASS A (LIGHT HAZARD OCCUPANT) PORTABLE FIRE EXTINGUISHER - RATED 2-A MIN. FOR A SINGLE EXTINGUISHER.
- FLOOR DRAIN - SEE PLUMBING
- 4" CONCRETE ENTRY SLAB TIED TO THRESHOLD AND ASPHALT WALK - SEE SHEET C101 OF CONCRETE WALK
- TUBE STEEL COLUMN INSIDE METAL WALL FRAMING - SEE DETAIL A4/A502 AND STRUCTURE FOR SIZE AND CONNECTION
- 5" CONC PAD AT DOOR. SLOPE AT 1/8" FT. AWAY FROM DOORS
- ELECTRICAL PANEL LOCATION - COORDINATE WITH ELECTRICAL DRAWINGS. CONTRACTOR RESPONSIBLE FOR CLEARANCES IN FRONT OF PANEL.
- AREA FOR METAL LOCKERS (SHOWN DASHED). LOCKERS ARE OWNER PROVIDED, OWNER INSTALLED.
- FURR-OUT FOR 2 1/2" DIA. PLUMBING PIPE.
- CUBICLE PARTITION WALL, N/C. SHOWN FOR REFERENCE ONLY.
- 5" CONCRETE DRAINAGE SUELL TIED INTO SERVICE DOCK SLAB AND CATCH BASINS.

GENERAL NOTES

- COORDINATE W/ MECHANICAL & ELECTRICAL PLANS FOR UNDER SLAB EQUIPMENT & REQUIREMENTS.
- ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, OR GRID - UNLESS NOTED OTHERWISE.
- COORDINATE WITH FINISH FLOOR PLAN, SHEET A102 FOR ALL FINISHES, INTERIOR ELEVATIONS, AND TRANSITION DETAILS.
- RESTROOM ACCESSORIES TO BE OWNER PROVIDED, OWNER INSTALLED - UNO.

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BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

DFCM PROJECT NO: 05006480

CAD PROJECT NO: 0516

CAD DWG FILE:

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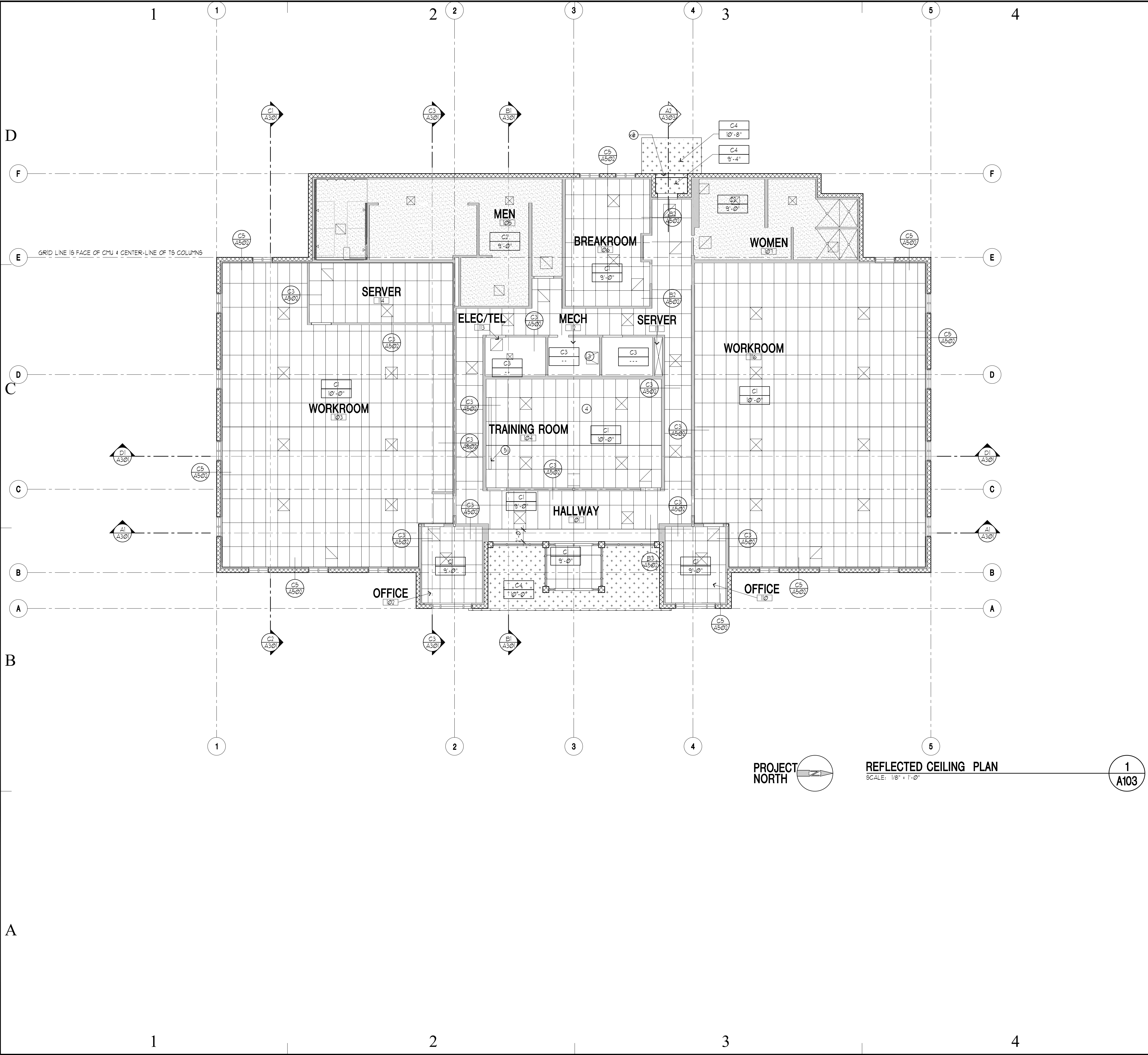
SHEET TITLE

FLOOR PLAN

SHEET NUMBER

A-101

SHEET 012 OF 055



LEGEND

①

KEY NOTE TAG

△

REVISION TAG

C1

9'-0"

FINISHED CEILING HEIGHT
CEILING FINISH - SEE FINISH SCHEDULE

⊞

RECESSED LIGHT FIXTURE,
COORD. W/ ELECTRICIAN

HO

WALL SCONCE LIGHT FIXTURE

■

LAY-IN LIGHT FIXTURE,
COORD. W/ ELECTRICIAN

⊗

EXIT LIGHT, COORD. W/ ELECT.

■

SUSPENDED OR SURFACE MOUNT
LIGHT

⊞

MECH. SUPPLY DIFFUSER, COORD.
W/ MECHANICAL

⊞

MECH. RETURN DIFFUSER,
COORD. W/ MECHANICAL

⊞

EXHAUST DIFFUSER

•

FIRE SPRINKLER

CEILING TYPES

C1

2' X 4' ACOUSTICAL TILE, PROVIDE
SAMPLE FOR APPROVAL PRIOR TO
INSTALLATION

C2

5/8" TYPE-X GYPSUM BOARD
CEILING, TAPED, SANDED AND
FINISH AS SELECTED

C3

EXISTING TO REMAIN -
REPLACE BROKEN OR
OTHERWISE DAMAGED TILES
WITH EXISTING TILES.

KEYNOTES

① SEE C1/A5/02 & C2/A5/02 FOR SEISMIC BRACING DETAILS.

② CMU LINTEL - SEE WALL SECTION A2/A3/03.

③ ROOF HATCH PENETRATION.

④ ALTERNATE #1: CEILING TYPE C1 CHANGES TO
A 2'-0"X2'-0", REGULAR - SEE SPEC SECTION
09512.

⑤ ALTERNATE #2: PROVIDE A RECESSED PROJECTION
SCREEN AND COORDINATE WITH KEYNOTE #4. SEE
SPEC SECTION 1130 FOR SCREEN.

5/12/05

MARK

DATE

DESCRIPTION

△

5/17/05

ADDENDA #1

△

5/19/05

ADDENDA #2

△

6/3/05

ADDENDA #3

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SHEET NUMBER

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SHEET 014 OF 055

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MARK

DATE

DESCRIPTION

△

5/17/05

ADDENDA #1

△

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6/3/05

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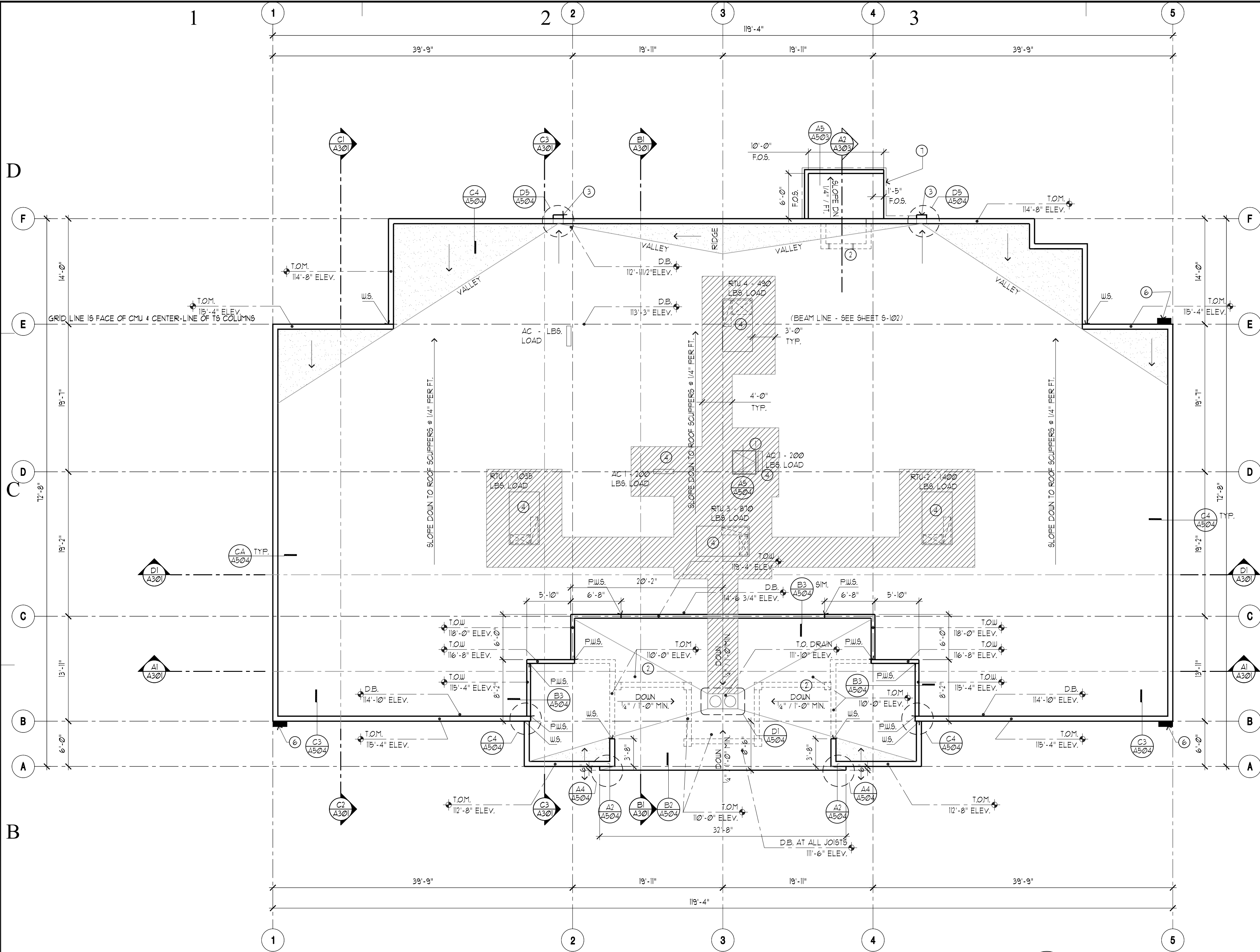
SHEET TITLE

REFLECTED
CEILING PLAN

SHEET NUMBER

A-103

SHEET 014 OF 055



PROJECT
NORTH

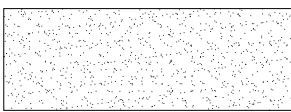
ROOF PLAN
SCALE: 1/8" = 1'-0"

1
A104

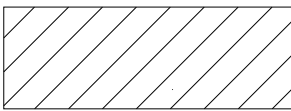
LEGEND - ROOF ONLY



SINGLE-PLY ROOF
MEMBRANE



IN ADDITION TO THE STANDARD ROOFING
SYSTEM INCLUDE THIS AREA OF APPLIED
INSULATION TO FORM SLOPES $\geq 1/2$ " FT MIN
IN DIRECTION NOTED.



REINFORCED WALKWAY -
SEE DET. D3/A-504



DETAIL TAG



KEY NOTE TAG



REVISION TAG



BUILDING GRID TAG



BUILDING SECTION TAG



WALL SECTION TAG



MASONRY WALL STEP



PARAPET WALL STEP

KEY NOTES

- 1 ROOF HATCH - SEE DETAIL NOTED
- 2 DASHED LINE INDICATES LINE OF EXTERIOR WALL BELOW.
- 3 ROOF SCUPPER TIED TO DOWNSPOUT - SEE DET. D5/A-504.
- 4 MECHANICAL EQUIPMENT - SEE DET. A3/A-504.
- 5 NOT USED
- 6 YARD LIGHT - SEE ELECTRICAL FOR TYPE.
- 7 24 GAUGE PRE-FINISHED METAL GUTTER, SLOPE AS REQUIRED AND TIE INTO SCUPPER AND/OR DOWNSPOUT - SEE DETAIL A5/A503.

GENERAL NOTES

1. FLASH ALL PENETRATIONS WHETHER SHOWN OR NOT.
2. COORDINATE W/ MECHANICAL PLANS FOR ROOF PENETRATIONS.

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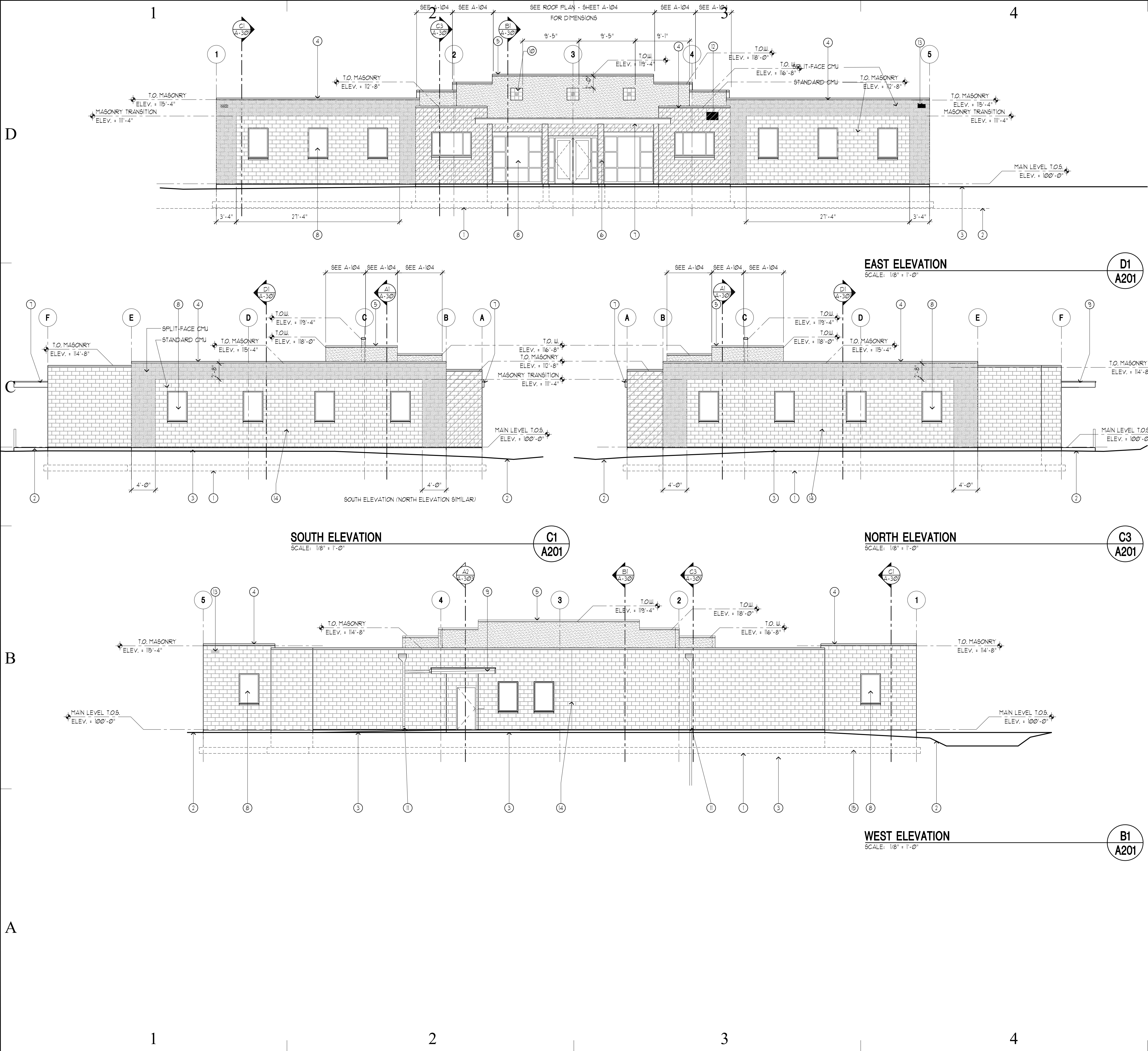
SHEET TITLE

ROOF
PLAN

SHEET NUMBER

A-104

SHEET 015 OF 055



LEGEND- EXTERIOR ELEVATIONS AND SECTIONS

- 8x16 CMU, STANDARD, COLORED (04810)
- 8x16 CMU, SPLIT FACE, COLORED (04810)
- WESTERN I-KOTE STUCCO SYSTEM OVER 1/16" GSB SHEATHING OVER 2X6 METAL STUDS - SEE WALL SECTION (07240)
- 8X8X16 W/ CENTER SCORE HONED CMU, SEE ARCHITECT FOR COLOR

KEY REFERENCE NOTES



KEYNOTES

- CONC. FOOTING AND FOUNDATION. SEE STRUCTURAL DRAWINGS FOR SIZE AND REINFORCING. FOOTINGS TO BEAR ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL AS PER ENGINEER'S SPECIFICATIONS. BOTTOM OF FOOTINGS SHALL BE PLACED 30" MIN. BELOW FINISH GRADE.
- EXISTING GRADE - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE EXISTING CONDITIONS WITH NEW CONDITIONS SHOWN IN PLANS. REPORT ANY DIFFERENCES TO ARCHITECT.
- FINISH GRADING - REFER TO CIVIL SHEETS. ALL GRADING SHALL COMPLY WITH IBC AND SHALL DRAIN AWAY FROM ALL BUILDING SIDES. MINIMUM SLOPE SHALL BE 6" WITHIN FIRST 10'-0".
- CMU - PREFINISHED METAL CAP FLASHING - SEE DETAIL C1/A-504.
- 6" METAL STUD WALL - PREFINISHED METAL CAP FLASHING - SEE DETAIL C1/A-504.
- HEADERS & COLUMNS (ALL EXPOSED TO VIEW SURFACES) ARE HONED CMU AS NOTED ABOVE. - SEE STRUCTURAL FOR REINFORCING AND MECHANICAL FOR PIPING.
- PREFINISHED METAL FASCIA/CANOPY - SEE WALL SECTION A1/A-304.
- STOREFRONT WINDOW SYSTEM - SEE SCHEDULE ON SHT. A-602.
- PREFINISHED METAL FASCIA/CANOPY - SEE WALL SECTION A2/A-303.
- IN THE (3) LOCATIONS SHOWN PROVIDE (9) 8" X 8" CERAMIC TILES (WT-6, UT-7) - SEE FINISH SCHEDULE FOR TYPE ON SHT. I-200.
- PREFINISHED METAL DOWNSPOUT - SEE DET. D5/A-504.
- SIGNAGE: SIZE: (4) BUILDING NUMERALS 12" HIGH FONT: HELVETICA TYPE: PREFINISHED ALUMINUM WITH VINYL APPLIED NUMERALS.
- YARD FLOOD LIGHTING - SEE ELECTRICAL.
- MASONRY CONTROL JOINT FILLED W/ SEALANT, COORDINATE TO MATCH CMU COLOR.
- STEPPING OF FOOTING & FOUNDATION ONLY OCCURS WITH ALTERNATE #1

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CONSULTANTS:

BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

DFCM PROJECT NO: 05006480

CAD PROJECT NO: 0516

CAD DWG FILE:

DRAWN BY: CDJ

CHK'D BY: CJ

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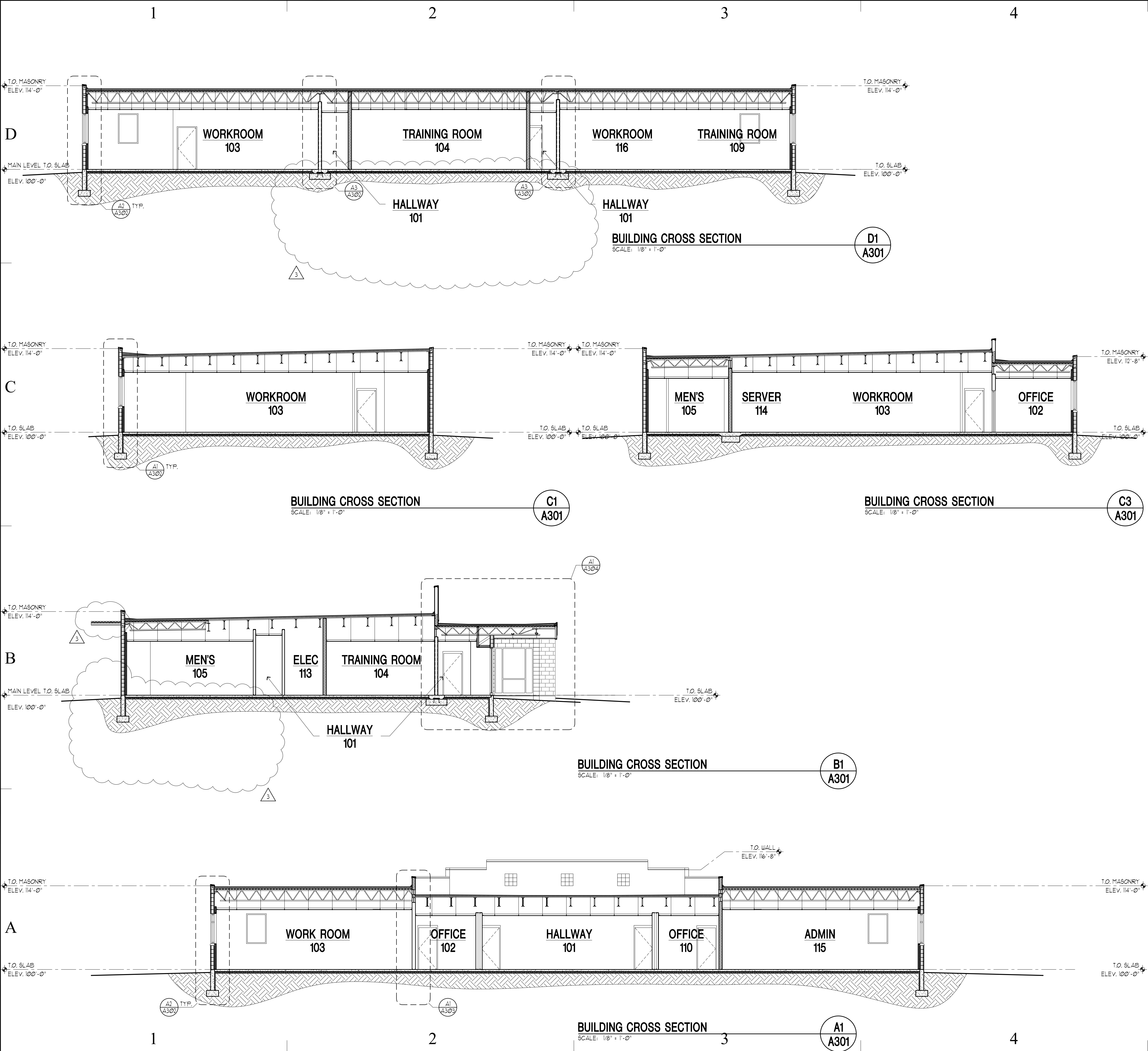
SHEET TITLE

EXTERIOR
ELEVATIONS

SHEET NUMBER

A-2 01

SHEET 016 OF 055



LEGEND- EXTERIOR ELEVATIONS AND SECTIONS

- 8x16 CMU, STANDARD, COLORED (04810)
- 8x16 CMU, SPLIT FACE, COLORED (04810)
- WESTERN I-KOTE STUCCO SYSTEM OVER 1/16" OSB SHEATHING OVER 2X6 METAL STUDS - SEE WALL SECTION (07240)
- 8X8X16 W/ CENTER SCORE HONED CMU, SEE ARCHITECT FOR COLOR

KEY REFERENCE NOTES

REVISION CLOUD

KEYNOTES

- CONC. FOOTING AND FOUNDATION. SEE STRUCTURAL DRAWINGS FOR SIZE AND REINFORCING. FOOTINGS TO BEAR ON UNDISTURBED SOIL OR ENGINEERED COMPACTED FILL AS PER ENGINEER'S SPECIFICATIONS. BOTTOM OF FOOTINGS SHALL BE PLACED 30" MIN. BELOW FINISH GRADE.
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JLTC

PROJECT TITLE:

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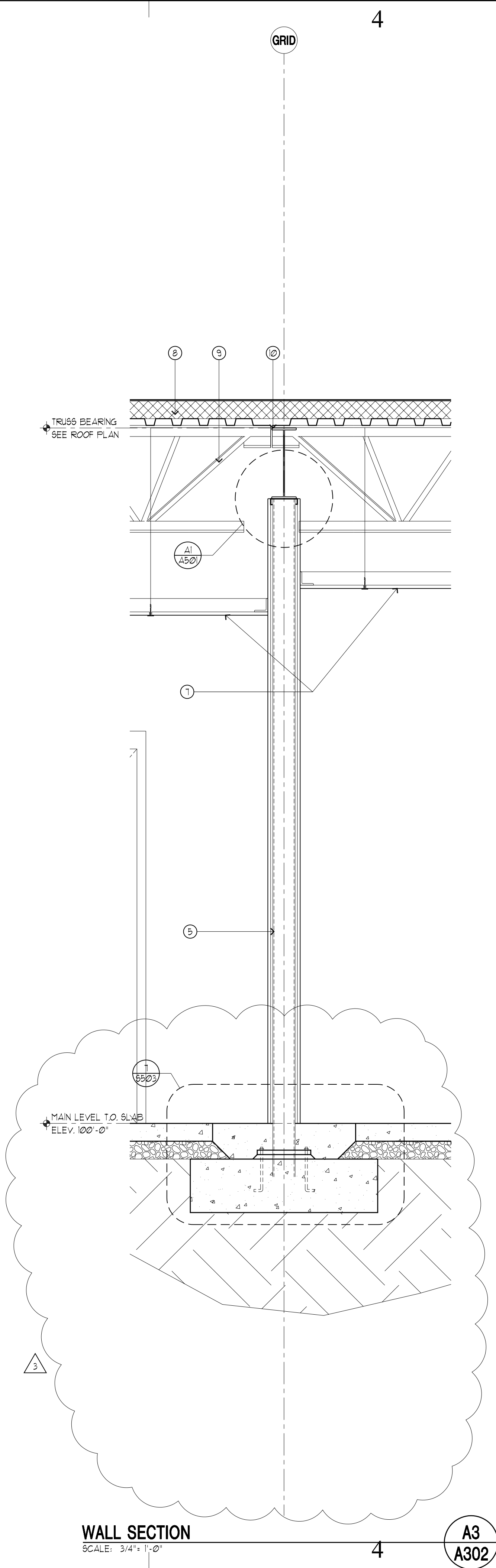
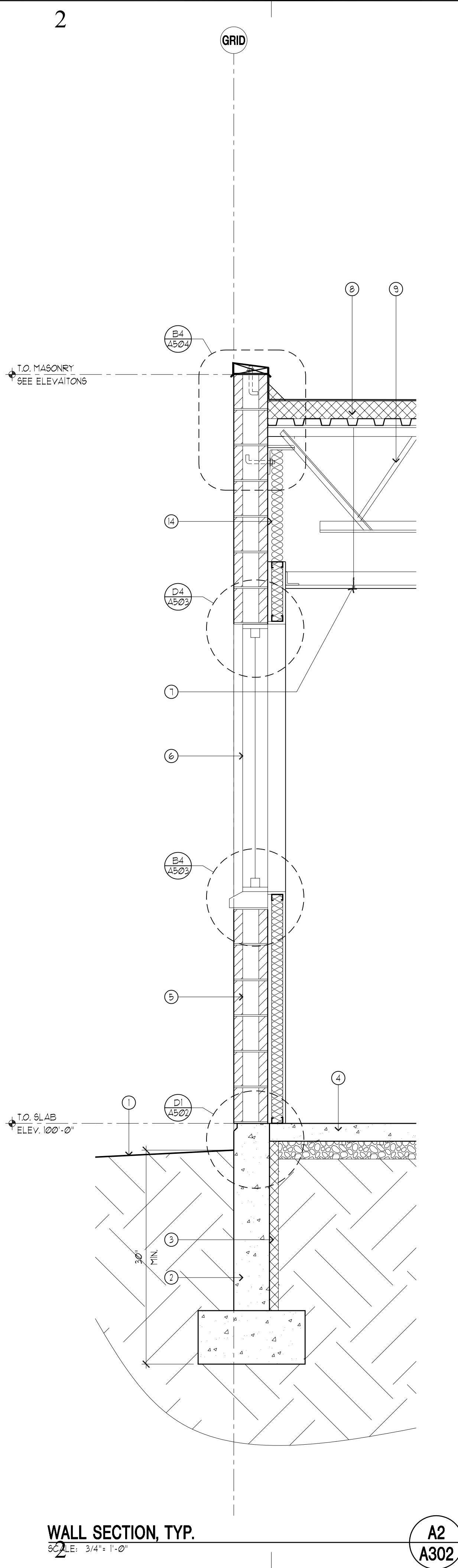
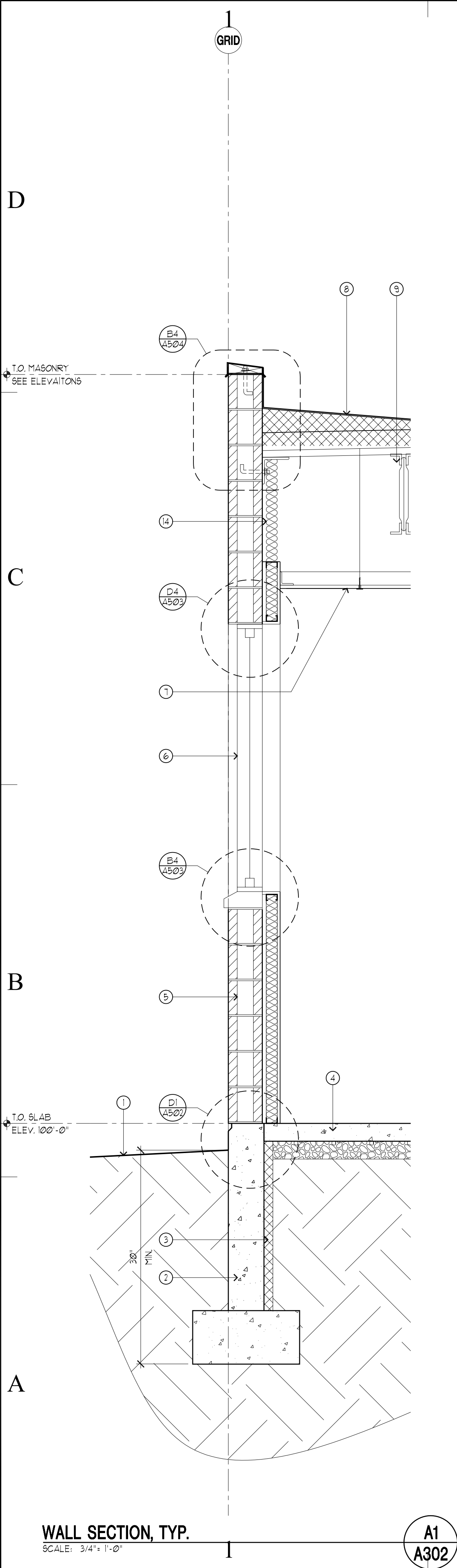
SHEET TITLE

BUILDING
SECTIONS

SHEET NUMBER

A-3 01

SHEET 017 OF 055



LEGEND - WALL SECTION ONLY

	DOOR TAG -SEE SCHEDULE ON
	WINDOW TAG -SEE SCHEDULE ON
	DETAIL TAG
	KEY NOTE TAG
	REVISION TAG
	BUILDING GRID TAG
	BUILDING SECTION TAG
	WALL SECTION TAG

KEY NOTES

- 1 FINISH GRADE - SEE SITE GRADING PLAN.
- 2 FOOTING & FOUNDATION SYSTEM - SEE STRUCTURAL FOR SIZE AND REINFORCING.
- 3 2" RIGID PERIMETER INSULATION.
- 4 4" THICK CONCRETE SLAB OVER 4" OF GRANULAR FILL - SEE STRUCTURAL FOR REINFORCING.
- 5 FOR WALL TYPE - SEE A-101 FOR WALL TAGS AND A-501 FOR DESCRIPTION OF WALL TYPES.
- 6 STOREFRONT WINDOW SYSTEM - SEE A-602 FOR WINDOW SCHEDULE.
- 7 CEILING SYSTEM - SEE SHT. A-103 FOR CEILING TYPE AND HEIGHT ABOVE FINISH FLOOR.
- 8 SINGLE-PLY ROOFING MEMBRANE SYSTEM OVER 4" OF RIGID INSULATION W/ TAPERED INSULATION TO ROOF DRAIN - SEE SHT. A-104 FOR ROOF PLAN.
- 9 METAL DECKING OVER STEEL JOISTS - SEE STRUCTURAL ROOF FRAMING PLAN ON SHT. S-102.
- 10 STEEL BEAM - SEE STRUCTURAL ROOF FRAMING PLAN ON SHT. S-102 FOR SIZE AND CONNECTIONS.
- 11 STUCCO FINISH OVER METAL STUD PARAPET WALL, BEYOND.
- 12 4" CONCRETE ENTRY SLAB - SEE FLOOR PLAN SHEET A-101 FOR DIMENSIONS.
- 13 R-24 BATT INSULATION.
- 14 R-13 BATTING INSULATION WITH FOIL FACE STICK-FINED TO CMU.
- 15 STUCCO SOFFIT SYSTEM OVER 1" GYPSUM SHEATHING OVER METAL STUD FRAMING - SEE STRUCTURAL FOR STUD SIZE AND SPACING.
- 16 HOLLOW METAL DOOR & FRAME - SEE DOOR SCHEDULE ON SHT. A-601.
- 17 MASONRY HEADER - SEE STRUCTURAL FOR REINFORCING - PROVIDE POCKET THROUGH CMU FOR JOISTS IF NECESSARY.
- 18 R-13 BATT INSULATION.

GENERAL NOTES

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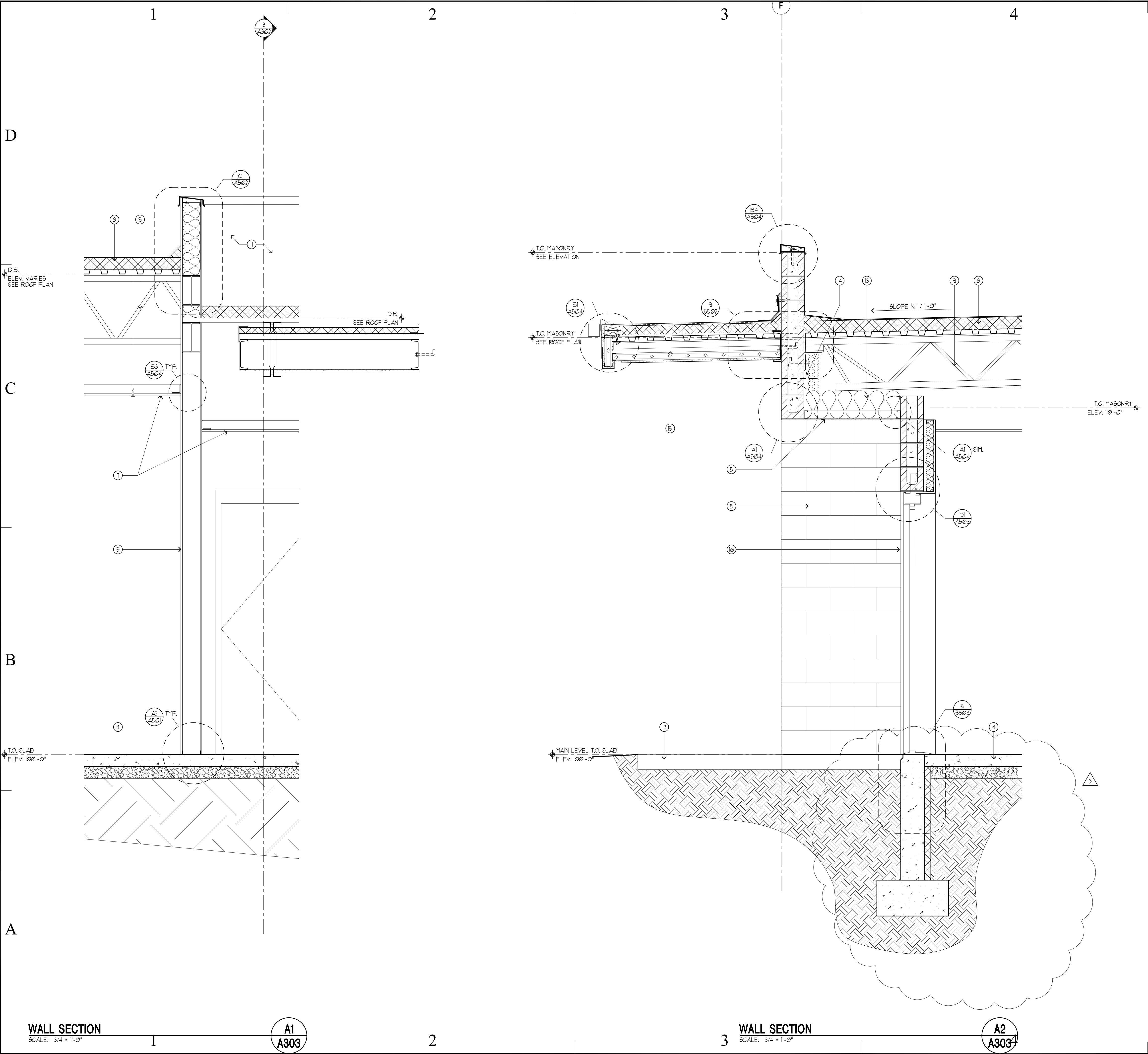
SHEET TITLE

WALL
SECTIONS

SHEET NUMBER

A-3 02

SHEET 018 OF 055



LEGEND - WALL SECTION ONLY

•

DOOR TAG

-SEE SCHEDULE ON

①

WINDOW TAG

-SEE SCHEDULE ON

•

DETAIL TAG

①

KEY NOTE TAG

#

REVISION TAG

→

BUILDING GRID TAG

→

BUILDING SECTION TAG

→

WALL SECTION TAG

KEY NOTES

①

FINISH GRADE - SEE SITE GRADING PLAN.

②

FOOTING & FOUNDATION SYSTEM - SEE STRUCTURAL FOR SIZE AND REINFORCING.

③

2" RIGID PERIMETER INSULATION.

④

4" THICK CONCRETE SLAB OVER 4" OF GRANULAR FILL - SEE STRUCTURAL FOR REINFORCING.

⑤

FOR WALL TYPE - SEE A-101 FOR WALL TAGS AND A-501 FOR DESCRIPTION OF WALL TYPES.

⑥

STOREFRONT WINDOW SYSTEM - SEE A-602 FOR WINDOW SCHEDULE.

⑦

CEILING SYSTEM - SEE SHT. A-103 FOR CEILING TYPE AND HEIGHT ABOVE FINISH FLOOR.

⑧

SINGLE-PLY ROOFING MEMBRANE SYSTEM OVER 4" OF RIGID INSULATION W/ TAPERED INSULATION TO ROOF DRAIN - SEE SHT. A-104 FOR ROOF PLAN.

⑨

METAL DECKING OVER STEEL JOISTS - SEE STRUCTURAL ROOF FRAMING PLAN ON SHT. S-102.

⑩

STEEL BEAM - SEE STRUCTURAL ROOF FRAMING PLAN ON SHT. S-102 FOR SIZE AND CONNECTIONS.

⑪

STUCCO FINISH OVER METAL STUD PARAPET WALL, BEYOND.

⑫

4" CONCRETE ENTRY SLAB - SEE FLOOR PLAN SHEET A-101 FOR DIMENSIONS.

⑬

R-24 BATT INSULATION.

⑭

R-13 BATTING INSULATION WITH FOIL FACE STICK-FINED TO CMU.

⑮

STUCCO SOFFIT SYSTEM OVER 1" GYPSUM SHEATHING OVER METAL STUD FRAMING - SEE STRUCTURAL FOR STUD SIZE AND SPACING.

⑯

HOLLOW METAL DOOR & FRAME - SEE DOOR SCHEDULE ON SHT. A-601.

⑰

MASONRY HEADER - SEE STRUCTURAL FOR REINFORCING - PROVIDE POCKET THROUGH CMU FOR JOISTS IF NECESSARY.

⑱

R-13 BATT INSULATION.

GENERAL NOTES

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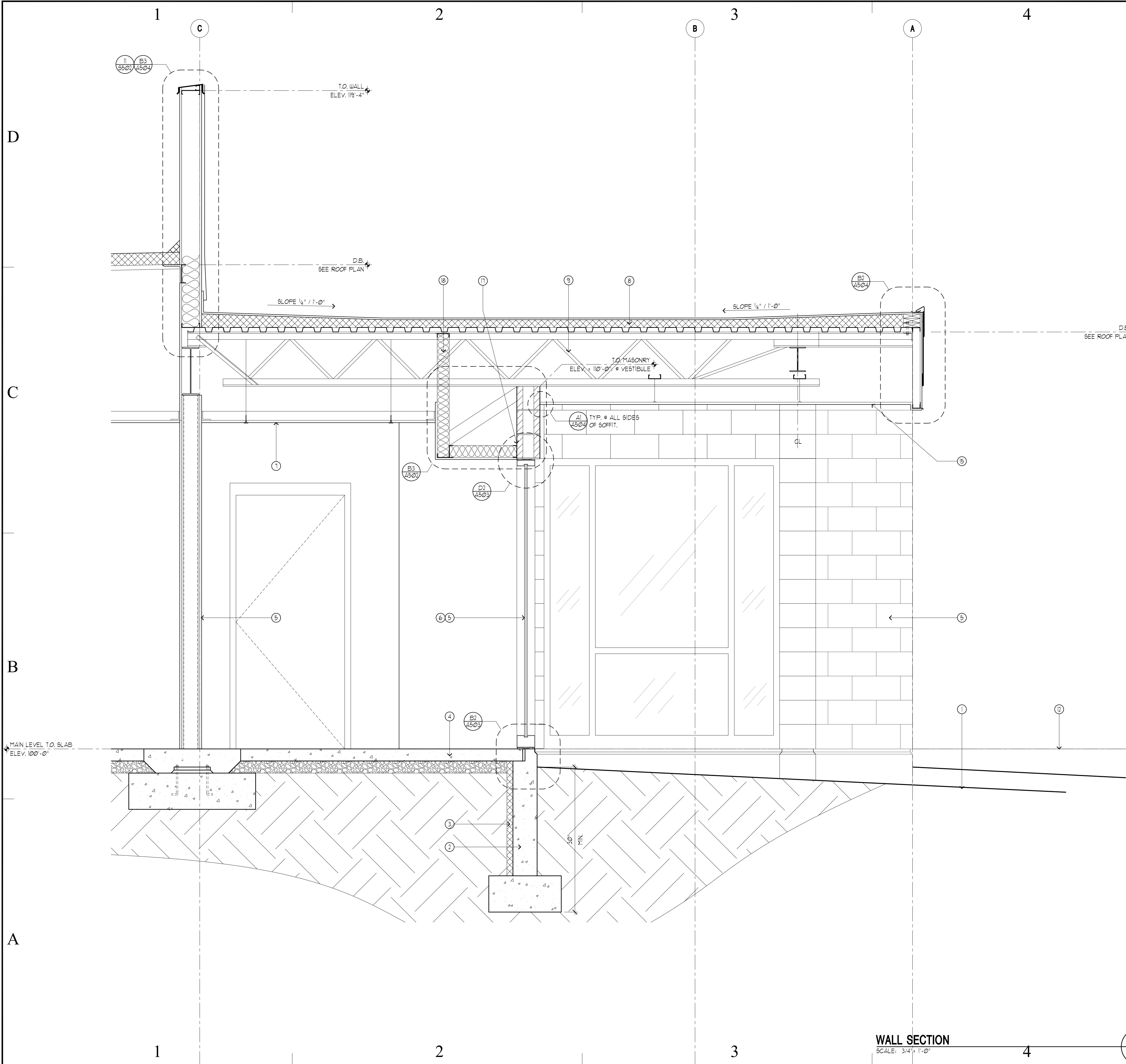
SHEET TITLE

WALL
SECTIONS

SHEET NUMBER

A-3 03

SHEET 019 OF 055



LEGEND - WALL SECTION ONLY

DOOR TAG

-SEE SCHEDULE ON

WINDOW TAG

-SEE SCHEDULE ON

DETAIL TAG

KEY NOTE TAG

REVISION TAG

BUILDING GRID TAG

BUILDING SECTION TAG

WALL SECTION TAG

KEY NOTES

1

FINISH GRADE - SEE SITE GRADING PLAN.

2

FOOTING & FOUNDATION SYSTEM - SEE STRUCTURAL FOR SIZE AND REINFORCING.

3

2" RIGID PERIMETER INSULATION.

4

4" THICK CONCRETE SLAB OVER 4" OF GRANULAR FILL - SEE STRUCTURAL FOR REINFORCING.

5

FOR WALL TYPE - SEE A-101 FOR WALL TAGS AND A-501 FOR DESCRIPTION OF WALL TYPES.

6

STOREFRONT WINDOW SYSTEM - SEE A-602 FOR WINDOW SCHEDULE.

7

CEILING SYSTEM - SEE SHT. A-103 FOR CEILING TYPE AND HEIGHT ABOVE FINISH FLOOR.

8

SINGLE-PLY ROOFING MEMBRANE SYSTEM OVER 4" OF RIGID INSULATION W/ TAPERED INSULATION TO ROOF DRAIN - SEE SHT. A-104 FOR ROOF PLAN.

9

METAL DECKING OVER STEEL JOISTS - SEE STRUCTURAL ROOF FRAMING PLAN ON SHT. S-102.

10

STEEL BEAM - SEE STRUCTURAL ROOF FRAMING PLAN ON SHT. S-102 FOR SIZE AND CONNECTIONS.

11

STUCCO FINISH OVER METAL STUD PARAPET WALL, BEYOND.

12

4" CONCRETE ENTRY SLAB - SEE FLOOR PLAN SHEET A-101 FOR DIMENSIONS.

13

R-24 BATT INSULATION.

14

R-13 BATTING INSULATION WITH FOIL FACE STICK-FINED TO CMU.

15

STUCCO SOFFIT SYSTEM OVER 1" GYPSUM SHEATHING OVER METAL STUD FRAMING - SEE STRUCTURAL FOR STUD SIZE AND SPACING.

16

HOLLOW METAL DOOR & FRAME - SEE DOOR SCHEDULE ON SHT. A-601.

17

MASONRY HEADER - SEE STRUCTURAL FOR REINFORCING - PROVIDE POCKET THROUGH CMU FOR JOISTS IF NECESSARY.

18

R-13 BATT INSULATION.

GENERAL NOTES

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interiors

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PROJECT TITLE:

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CAMP WILLIAMS
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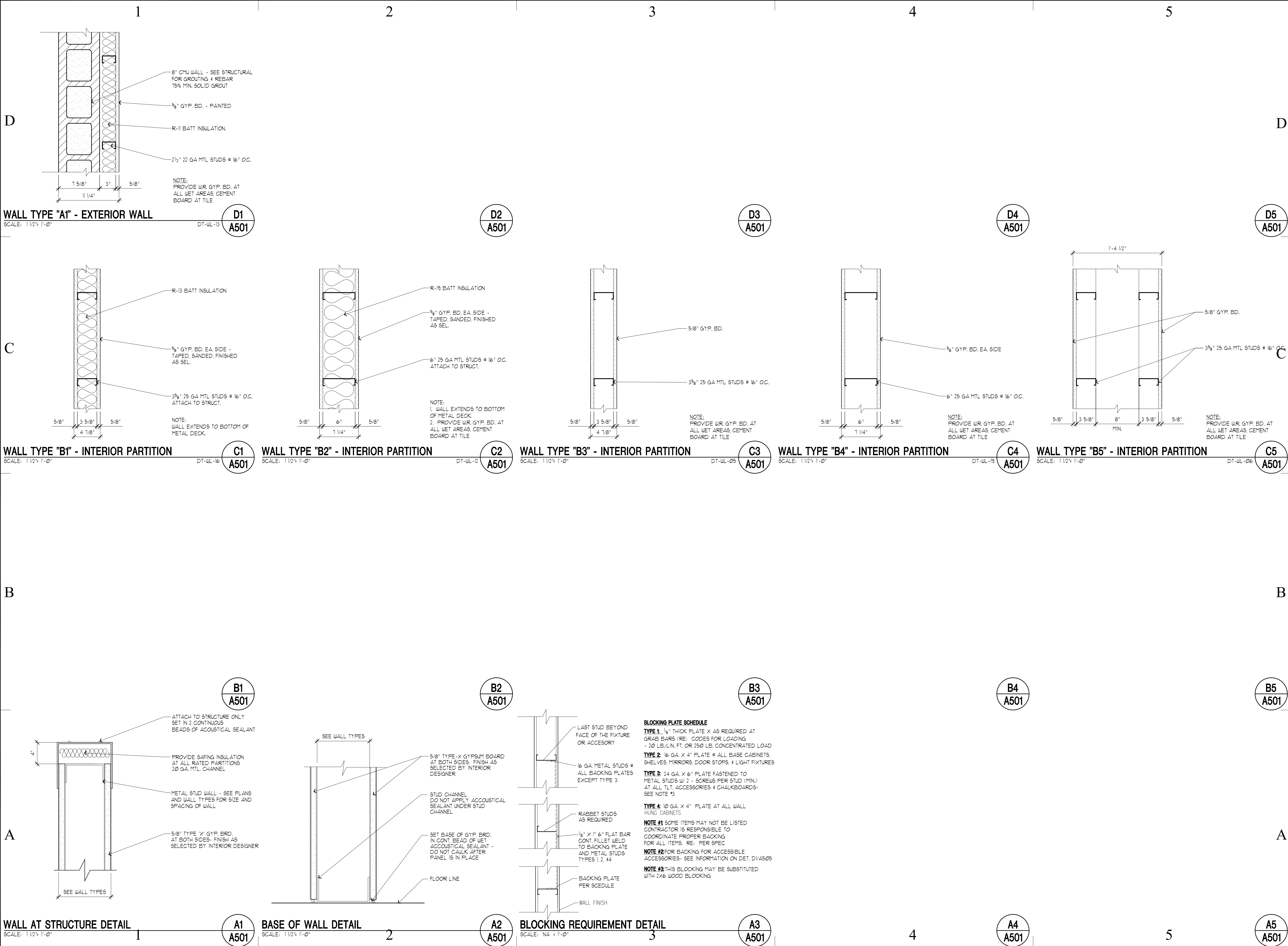
SHEET TITLE

WALL
SECTIONS

SHEET NUMBER

A-3 04

SHEET 020 OF 055



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DRAPER, UT

MARK

DATE

DESCRIPTION

△

5/17/05

ADDENDA #1

△

5/19/05

ADDENDA #2

△

6/3/05

ADDENDA #3

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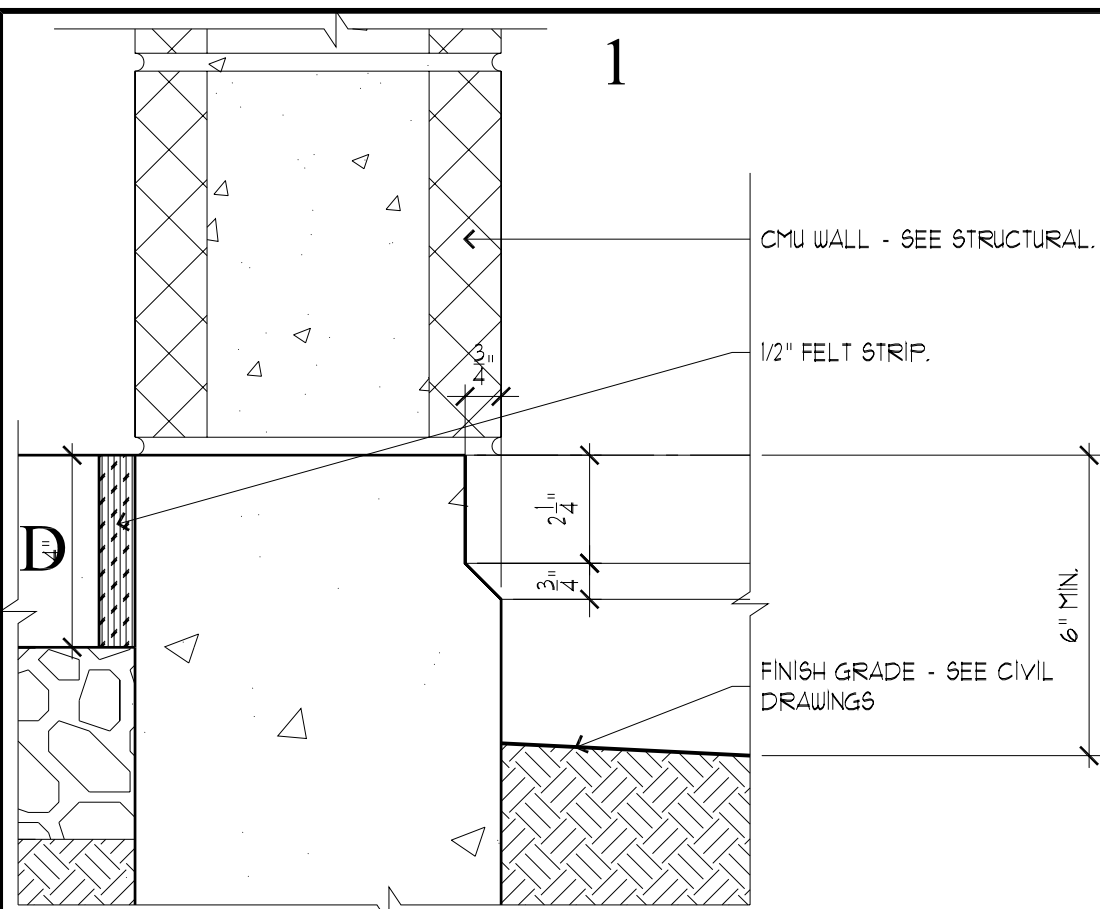
SHEET TITLE

WALL TYPES &
ARCH. DETAILS

SHEET NUMBER

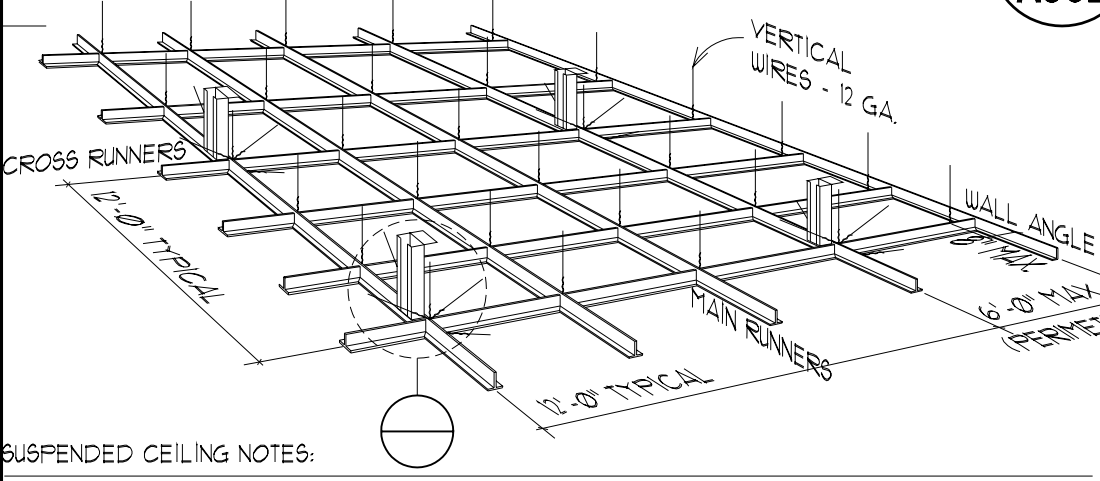
A-5 01

SHEET 023 OF 055



TOP OF FOUNDATION DETAIL, TYP.

SCALE: 3/4" = 1'-0"

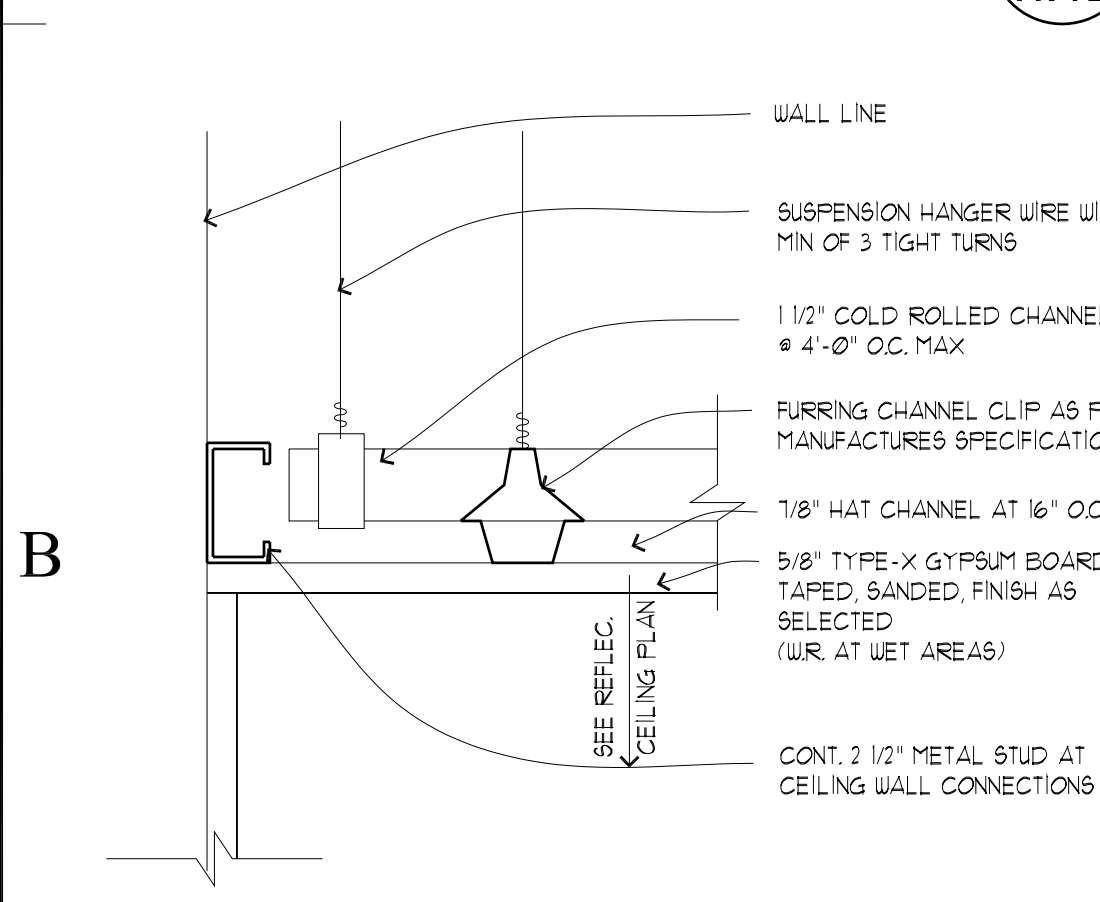


SUSPENDED CEILING NOTES:

- CEILING AREA OF 144 SQ. FT. OR LESS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL NOT REQUIRE THE DIAGONAL BRACING WIRES.
- EACH VERTICAL WIRE SHALL BE ATTACHED EACH END WITH MIN. 5 TURNS.
- CEILING GRID SHALL BE INSTALLED LEVEL TO WITHIN 1/8" IN 12 FEET.
- LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS.
- ALL WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT.
- PROVIDE 4 WIRES (1 EA. CORNER) FOR SUSPENDED LIGHT FIXTURES.

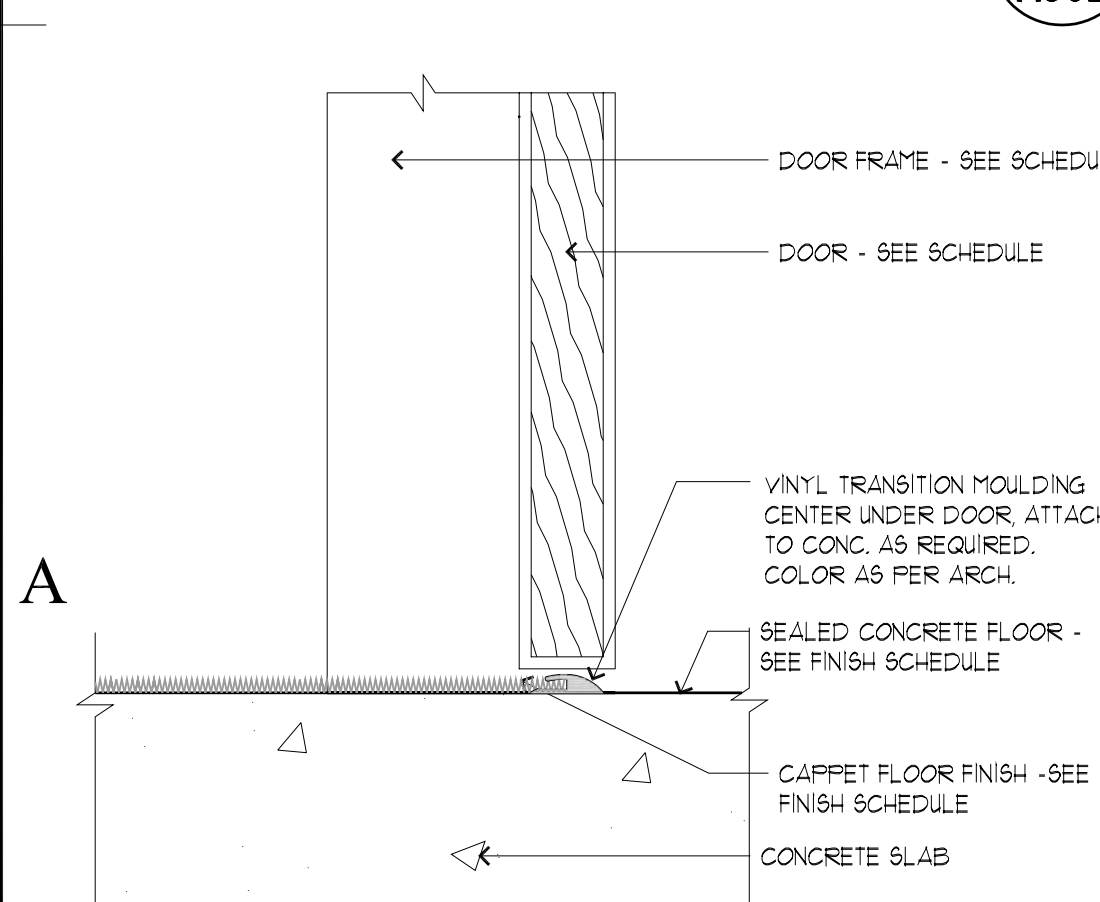
SUSPENDED CEILING DETAIL

SCALE: NTS = 1'-0"



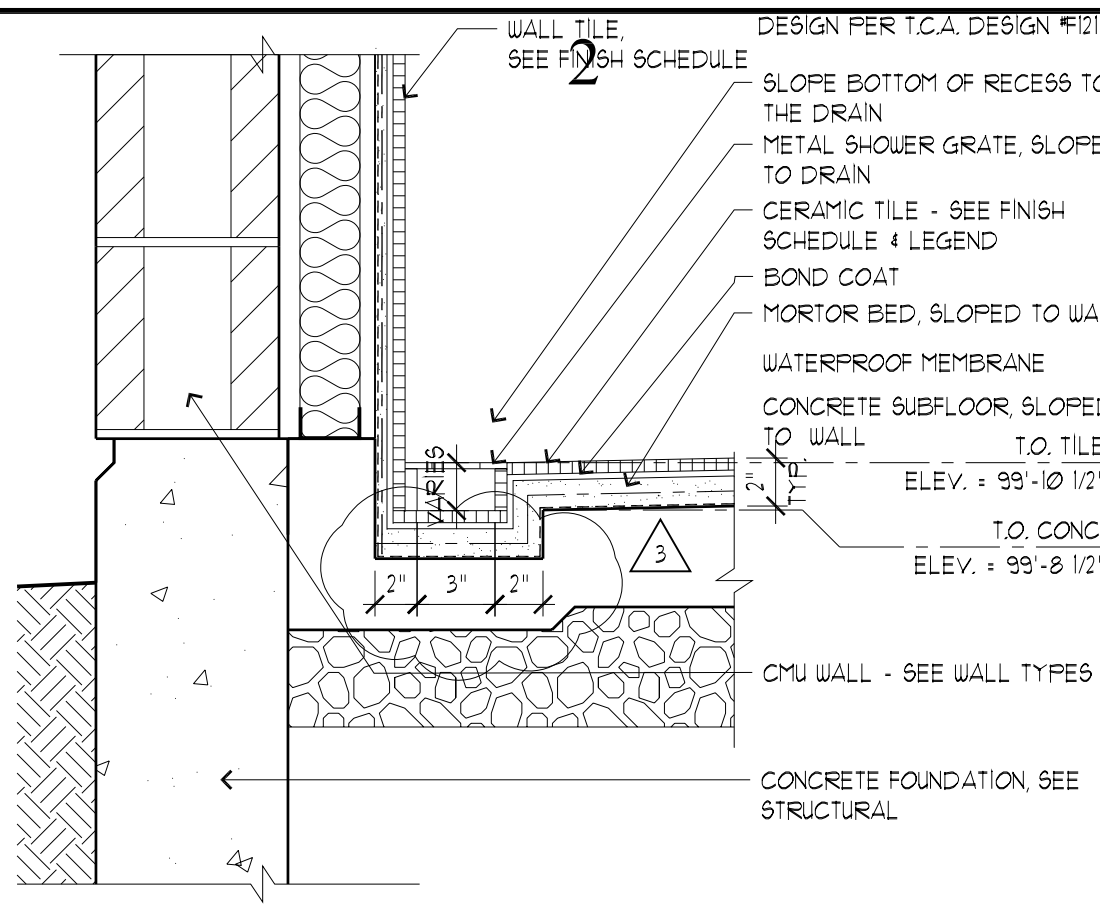
CEILING DETAIL

SCALE: 3/4" = 1'-0"



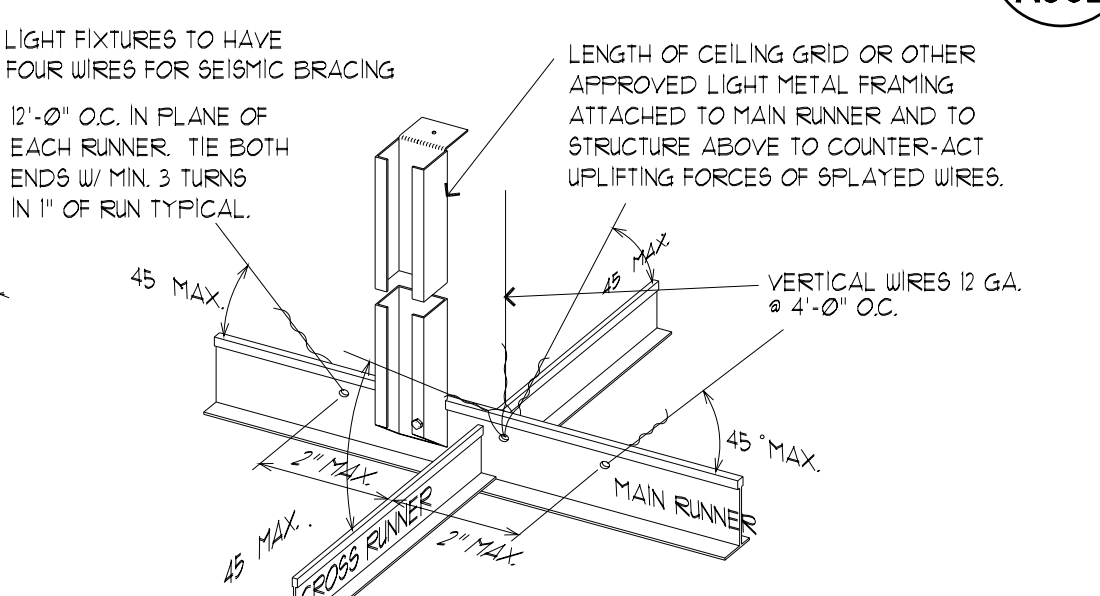
FLOOR TRANSITION - CARPET/CONCRETE

SCALE: 3/4" = 1'-0"



DRAIN DETAIL @ MEN'S SHOWER

SCALE: 1 1/4" = 1'-0"

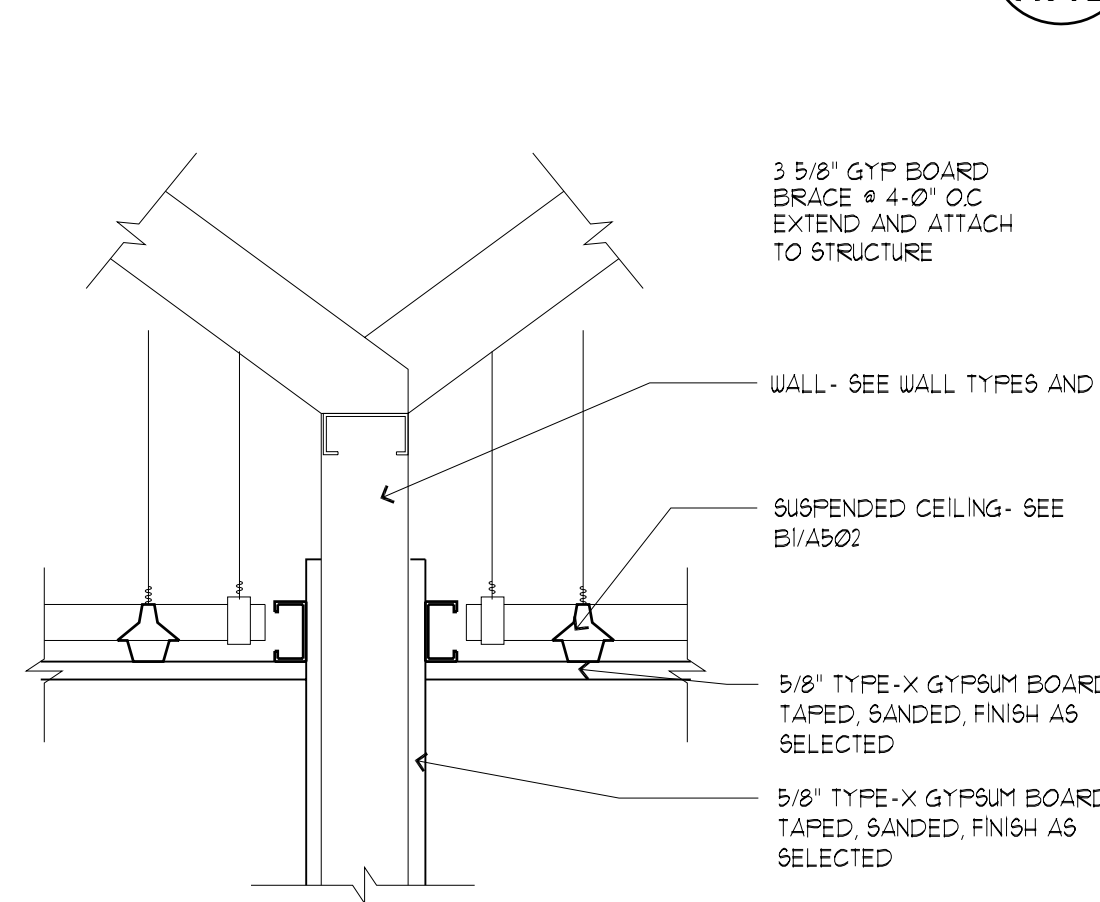


SUSPENDED CEILING NOTES:

- ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE FIXTURE. TWO ADDITIONAL WIRES SHALL BE CONNECTED TO THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE.
- WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

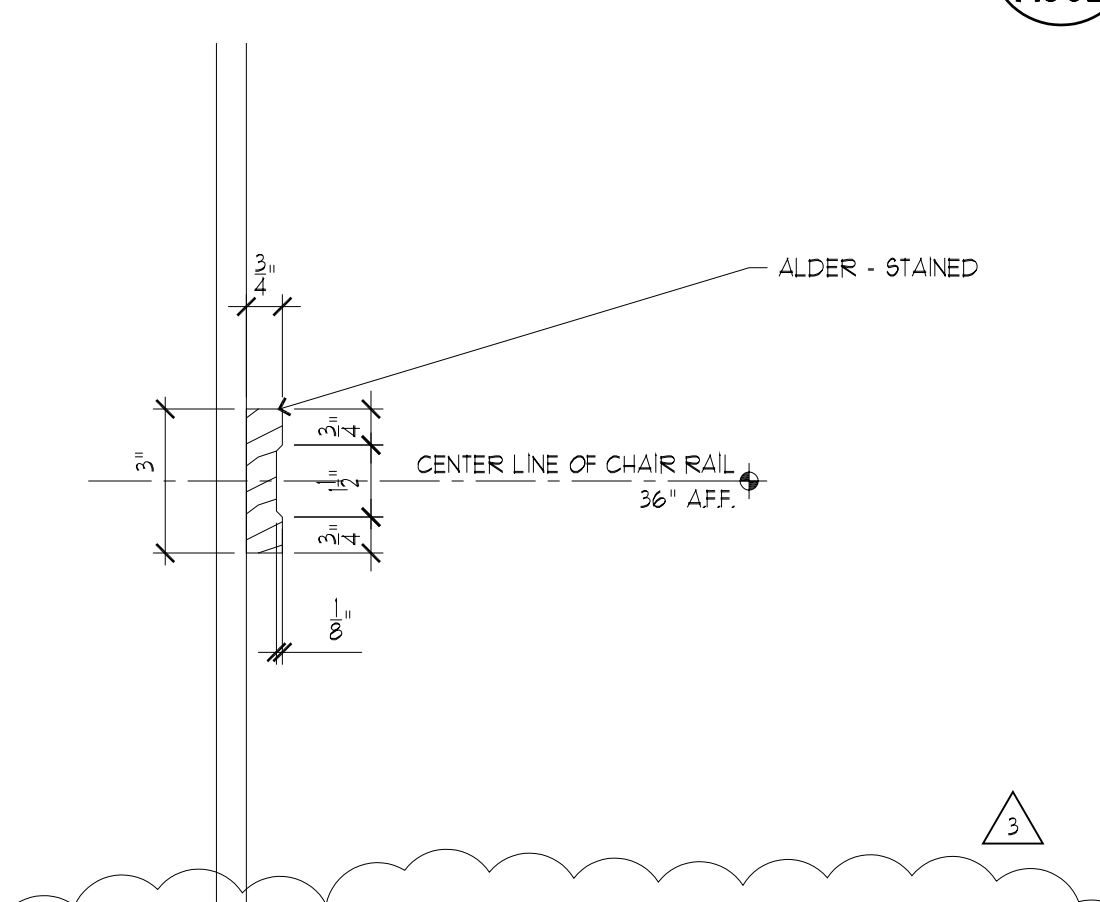
SUSPENDED CEILING DETAIL

SCALE: NTS = 1'-0"



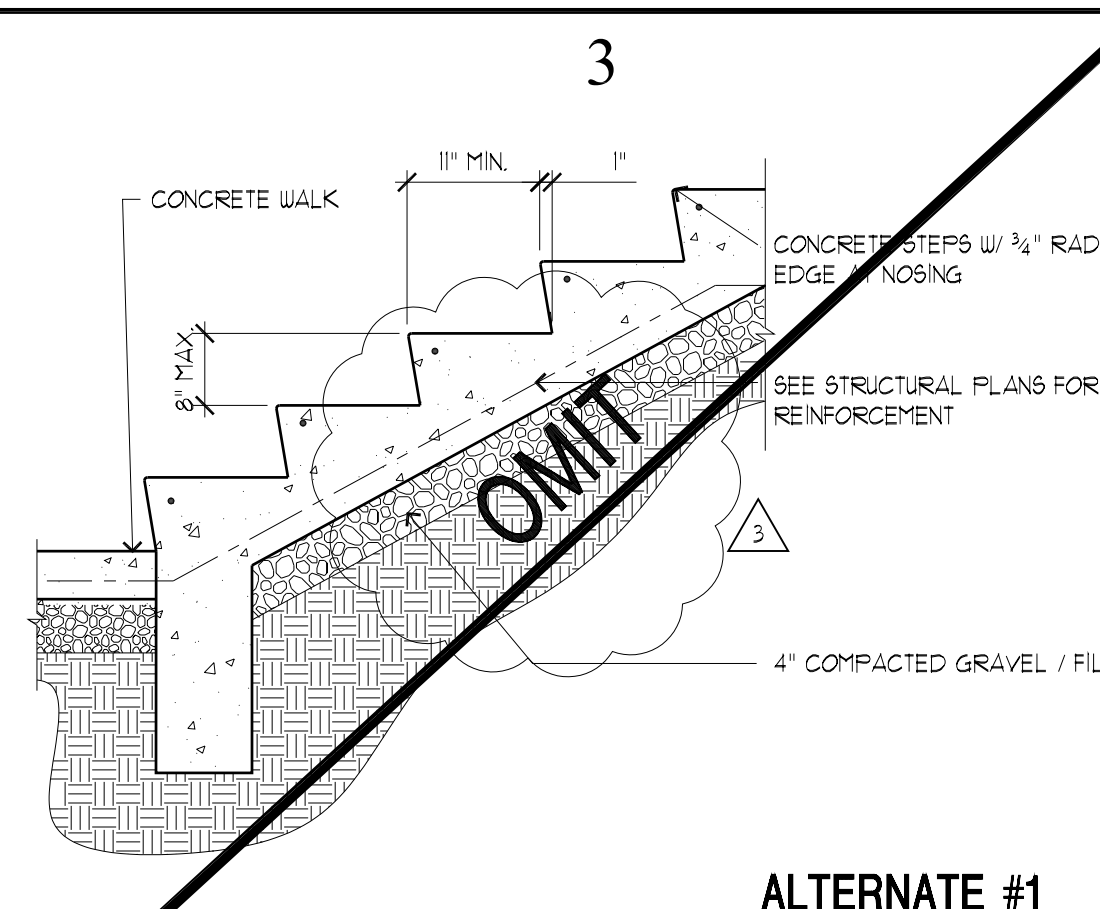
WALL DETAIL AT CEILING

SCALE: 1 1/2" = 1'-0"



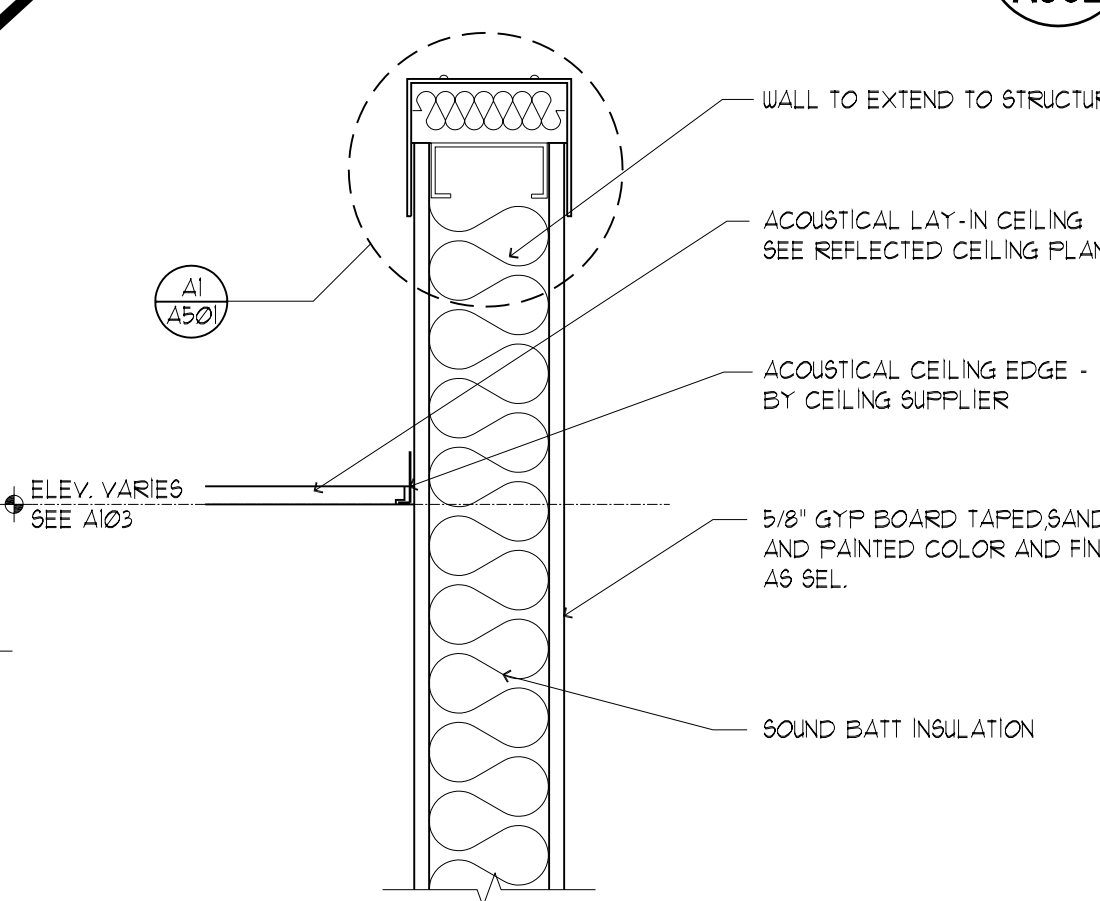
CHAIR RAIL DETAIL - ALTERNATE #1

SCALE: 3/4" = 1'-0"



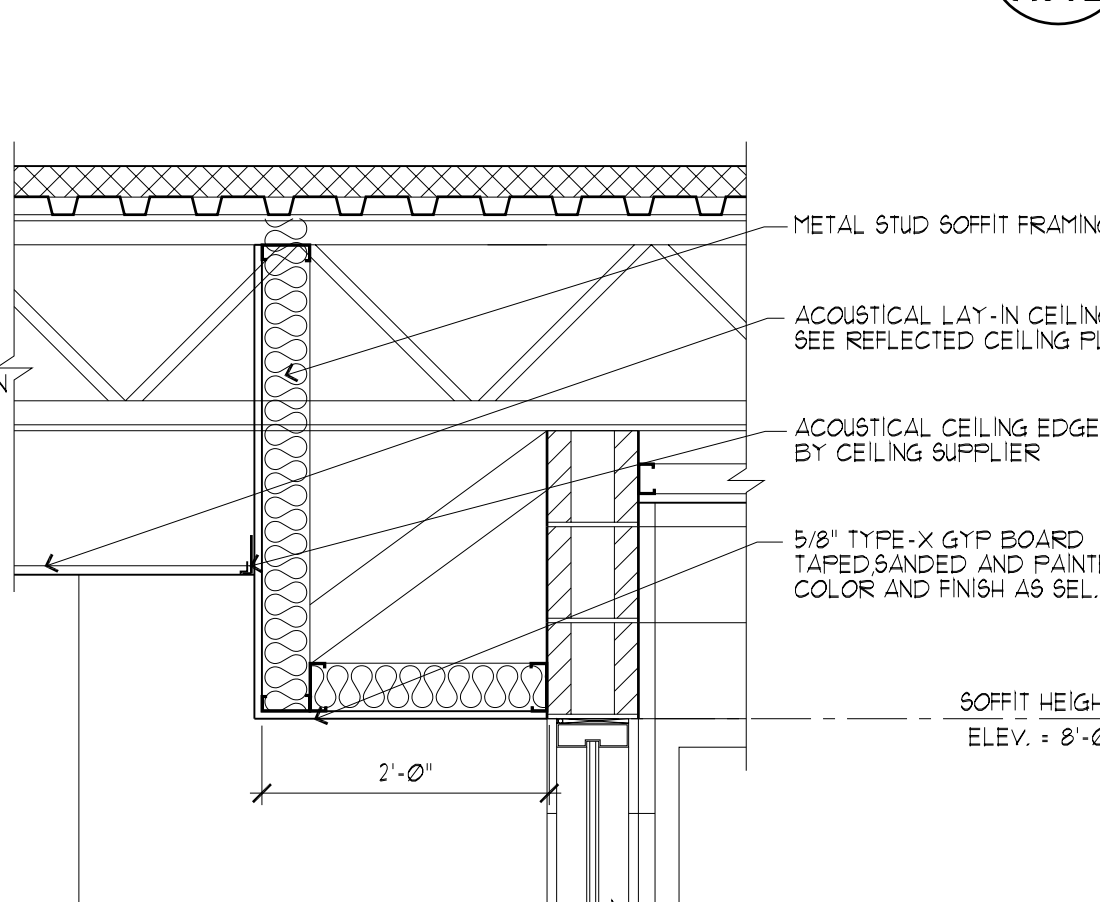
CONCRETE STAIR SECTION

SCALE: 3/4" = 1'-0"



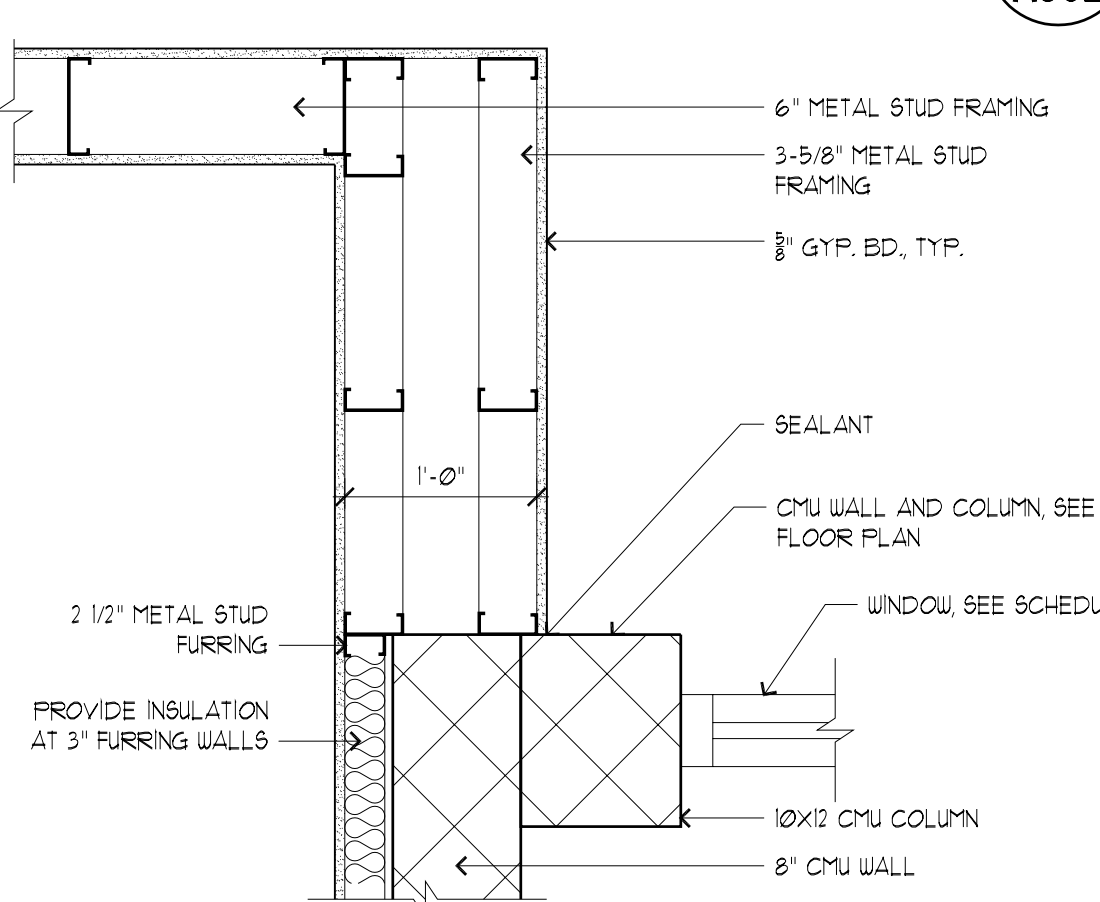
CEILING DETAIL

SCALE: 1" = 1'-0"



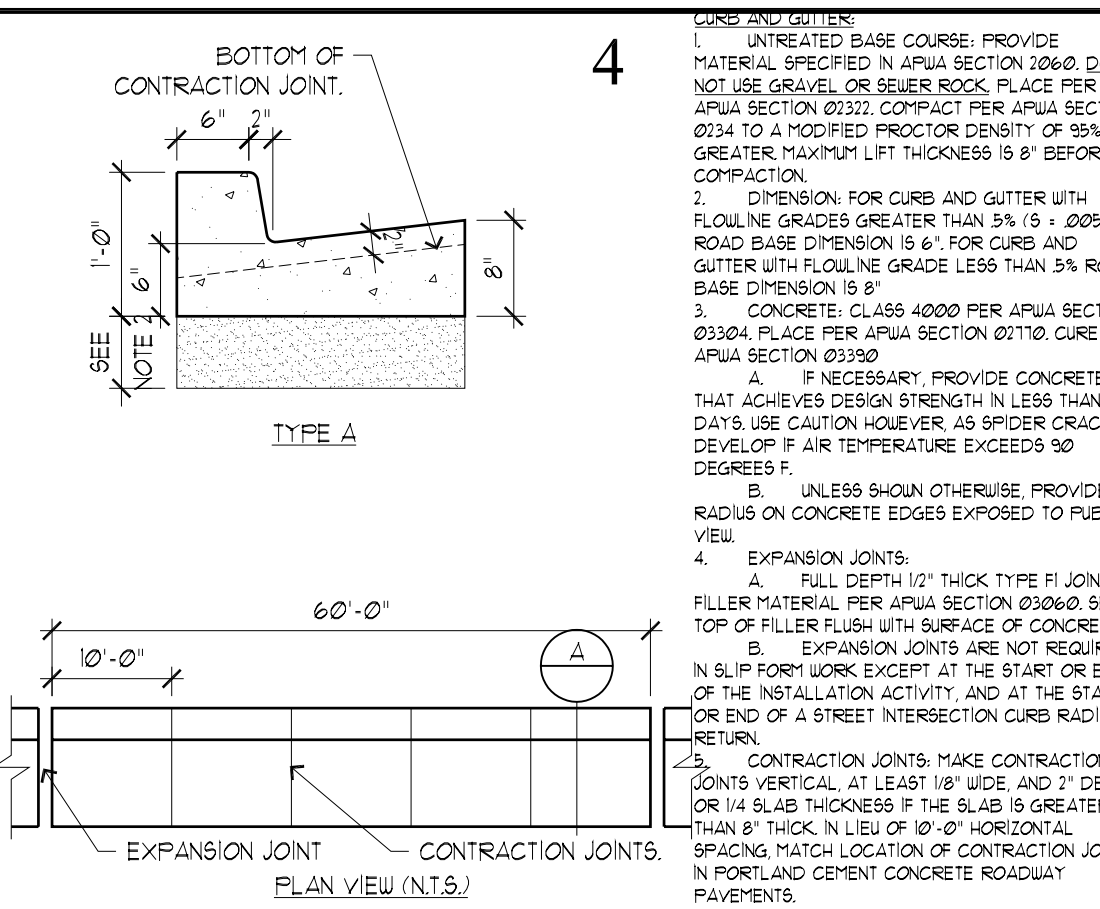
SOFFIT DETAIL @ CEILING

SCALE: 3/4" = 1'-0"



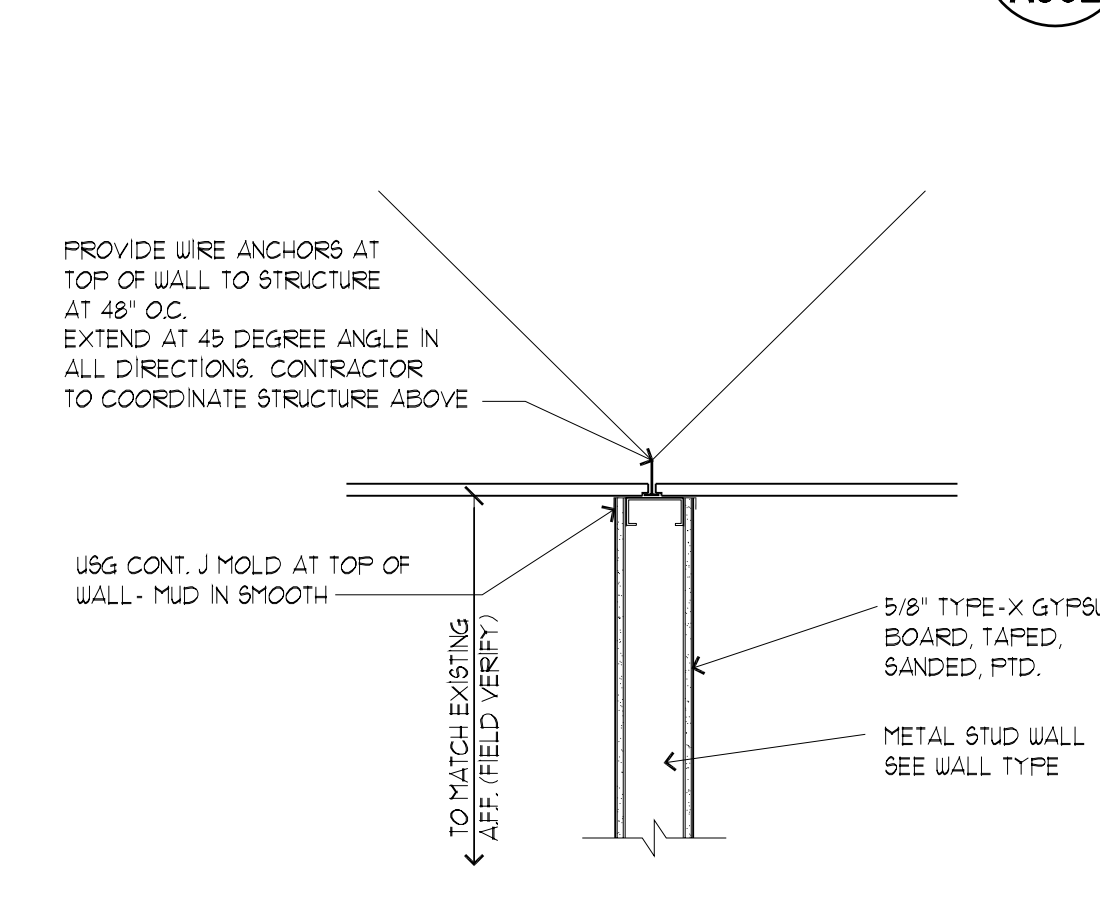
FRAMING DETAIL

SCALE: 1" = 1'-0"



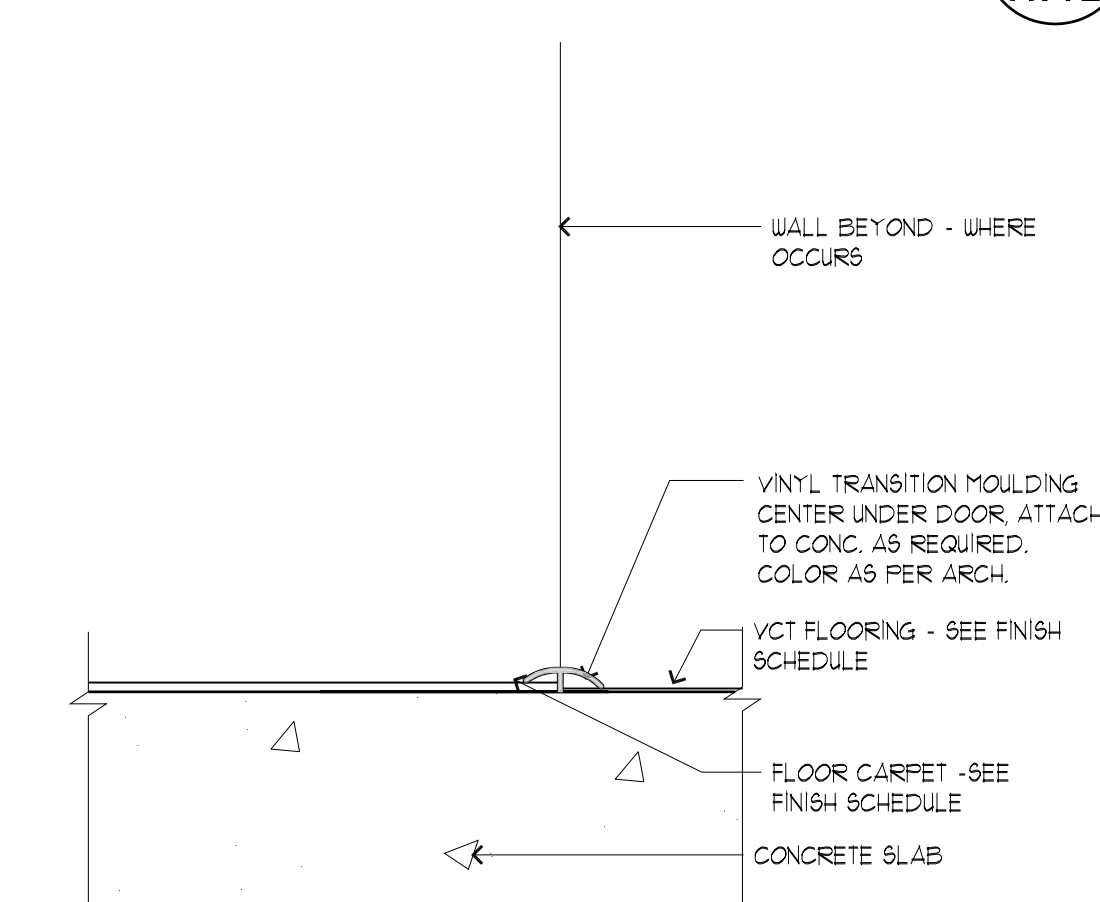
CURB AND GUTTER DETAIL

SCALE: 3/4" = 1'-0"



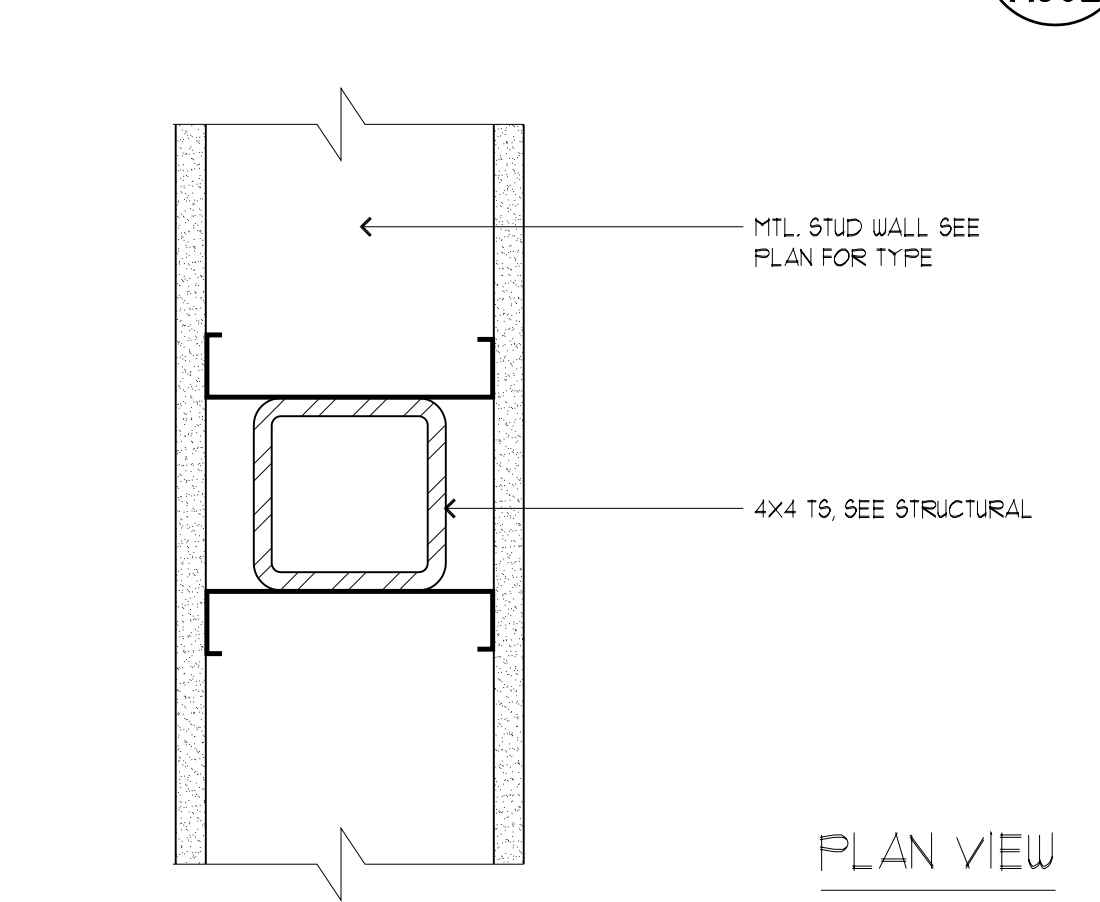
CEILING DETAIL AT WALL TO CEILING GRID

SCALE: 1" = 1'-0"



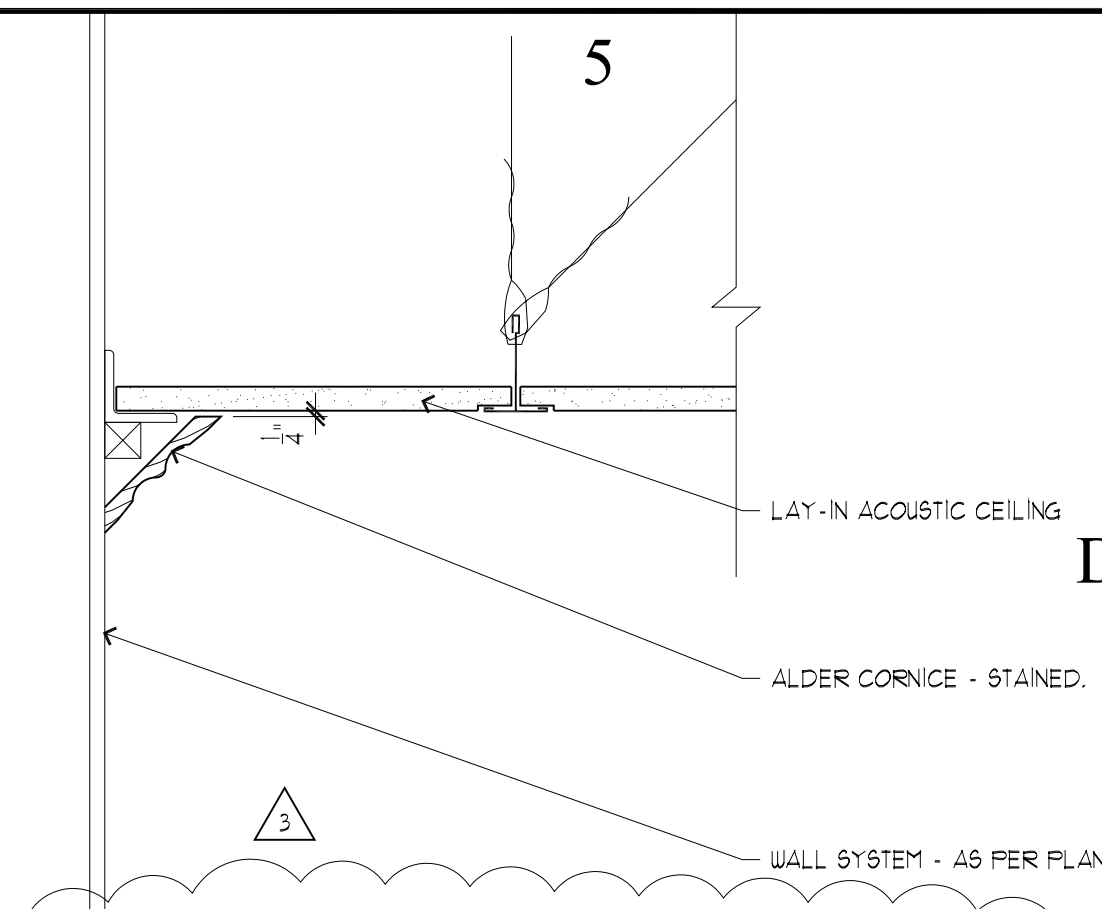
FLOOR TRANSITION - TILE/VCT

SCALE: 3/4" = 1'-0"



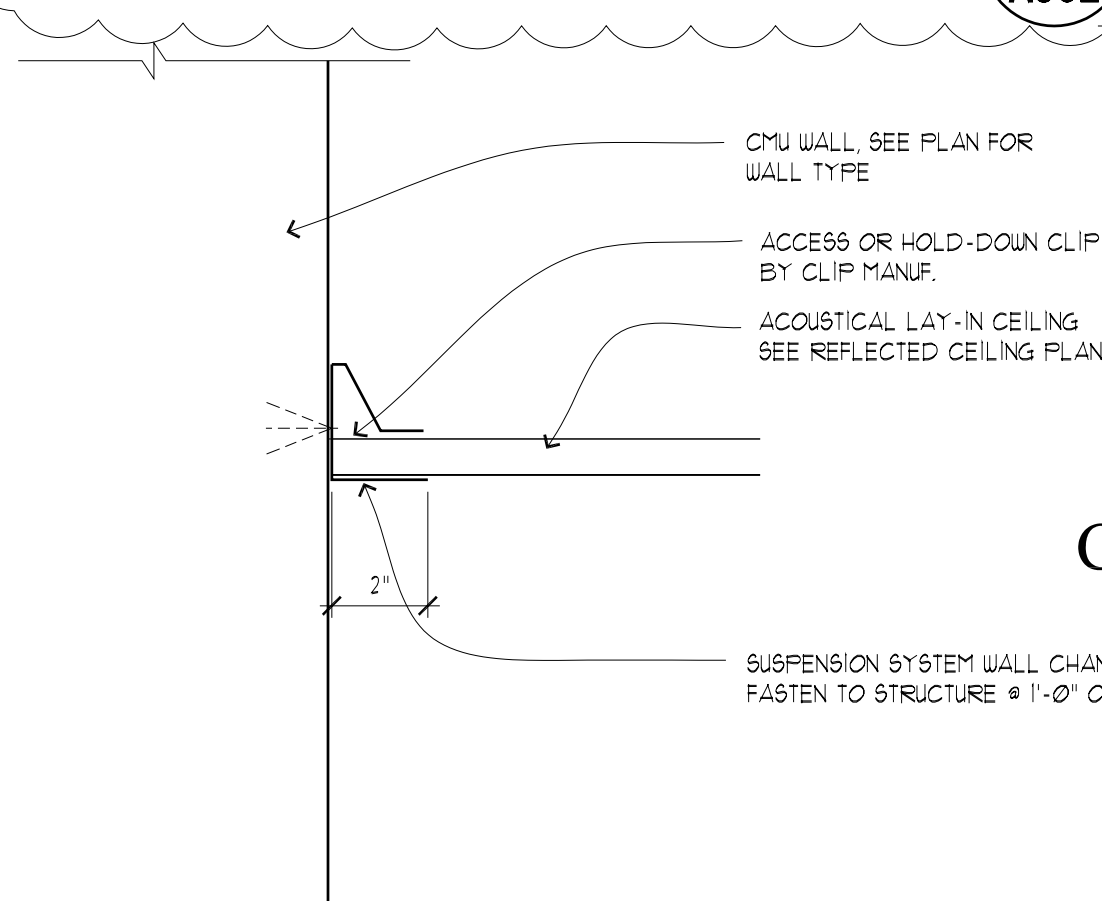
COLUMN DETAIL

SCALE: 3/4" = 1'-0"



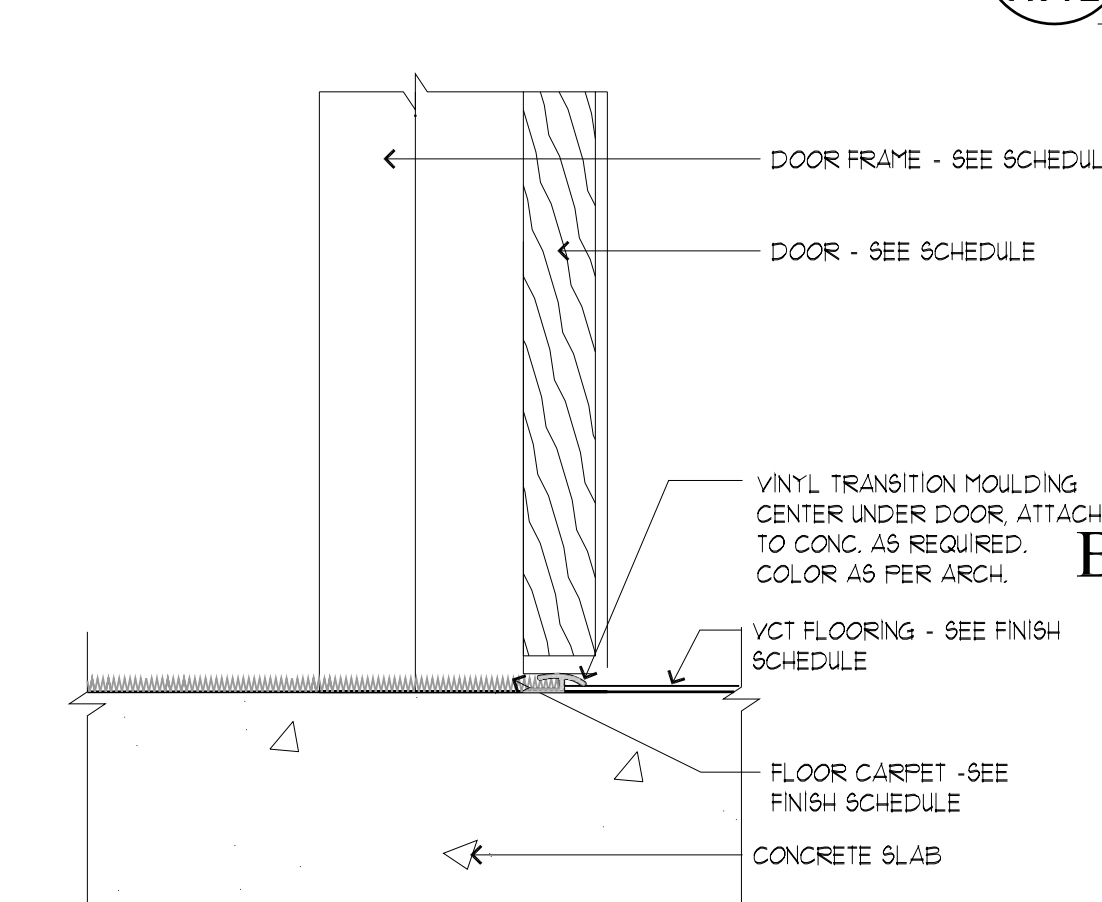
CORNICE DETAIL - ALTERNATE #1

SCALE: 3/4" = 1'-0"



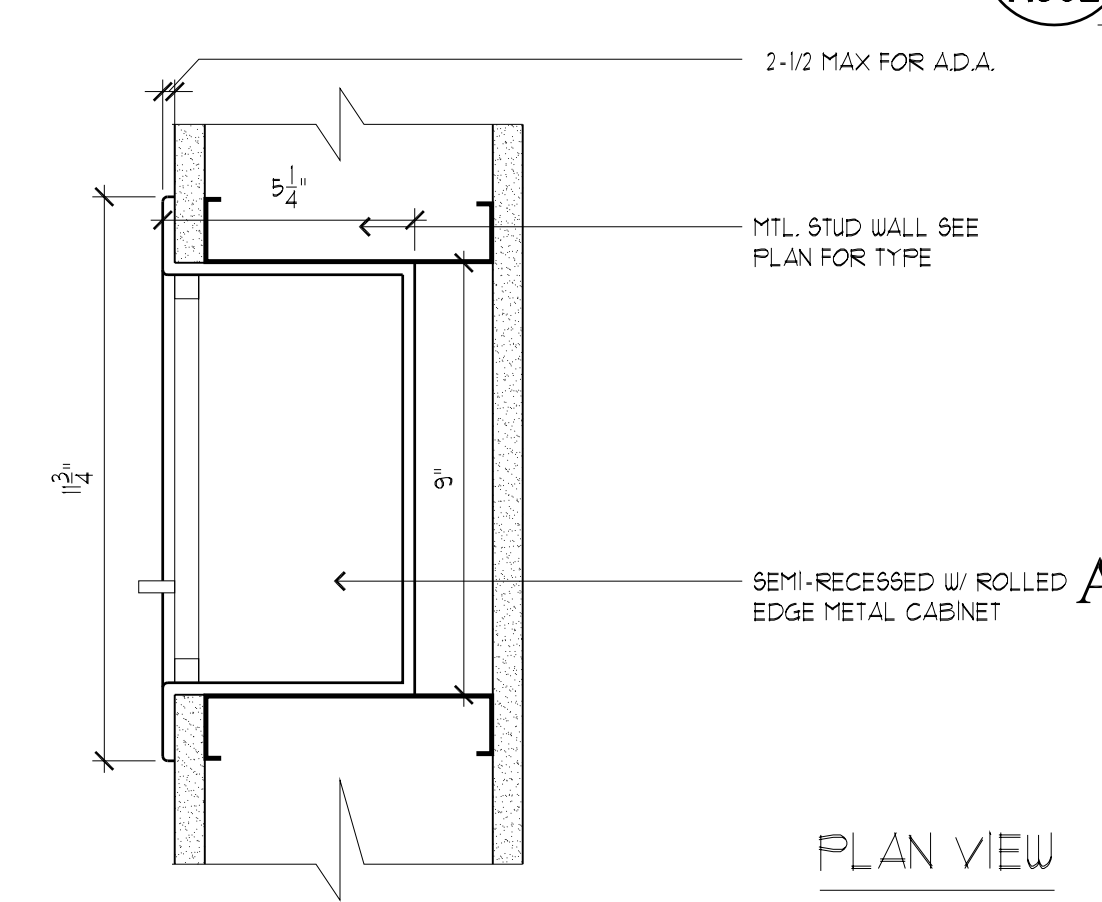
CEILING DETAIL AT CMU WALL

SCALE: 3/4" = 1'-0"



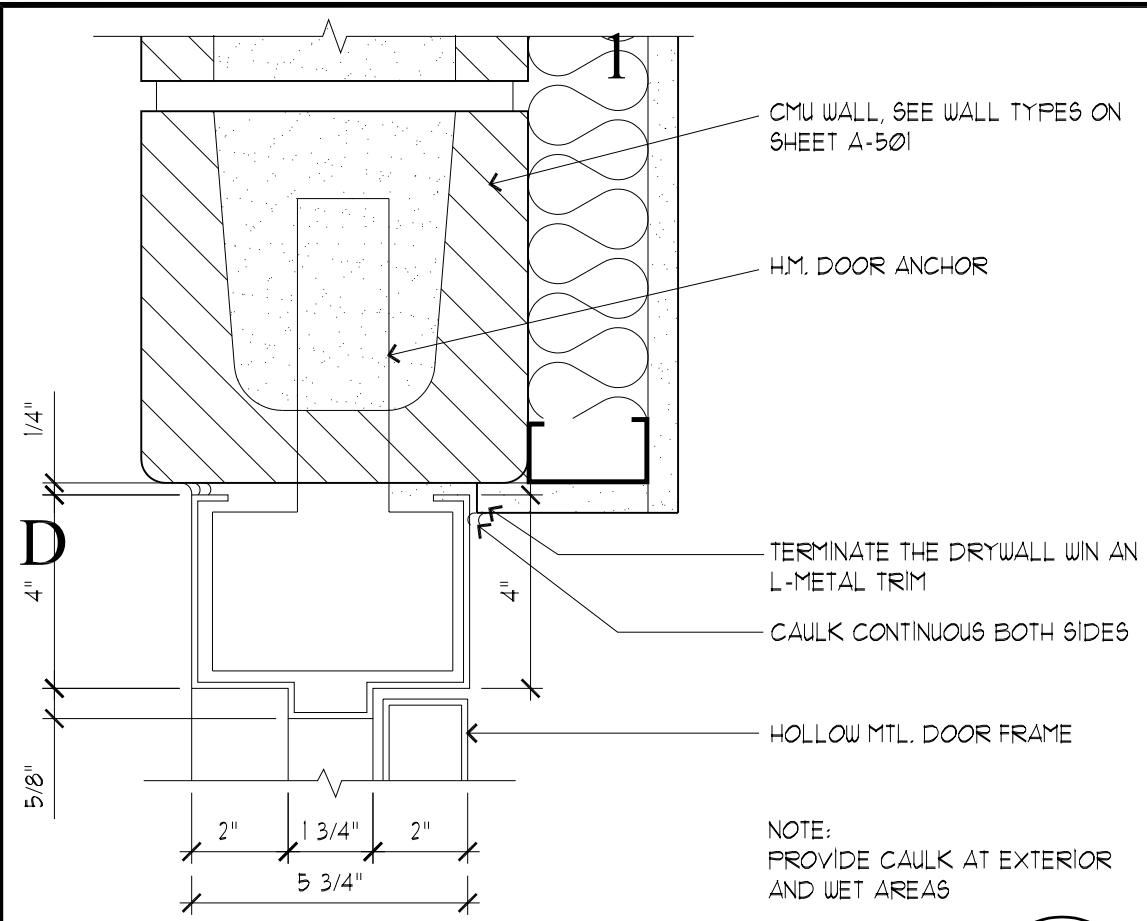
FLOOR TRANSITION - VCT/CARPET

SCALE: 3/4" = 1'-0"

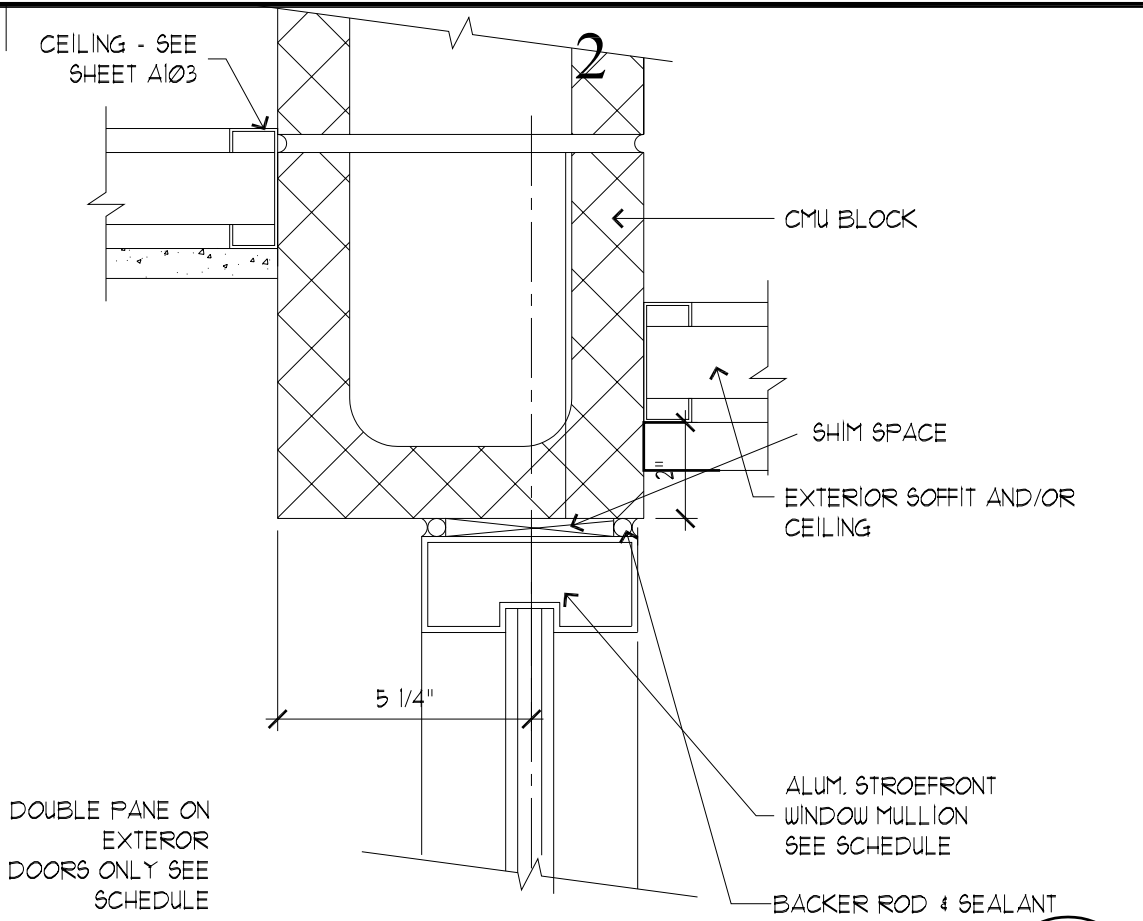


FIRE EXTINGUISHER CAB. DET.

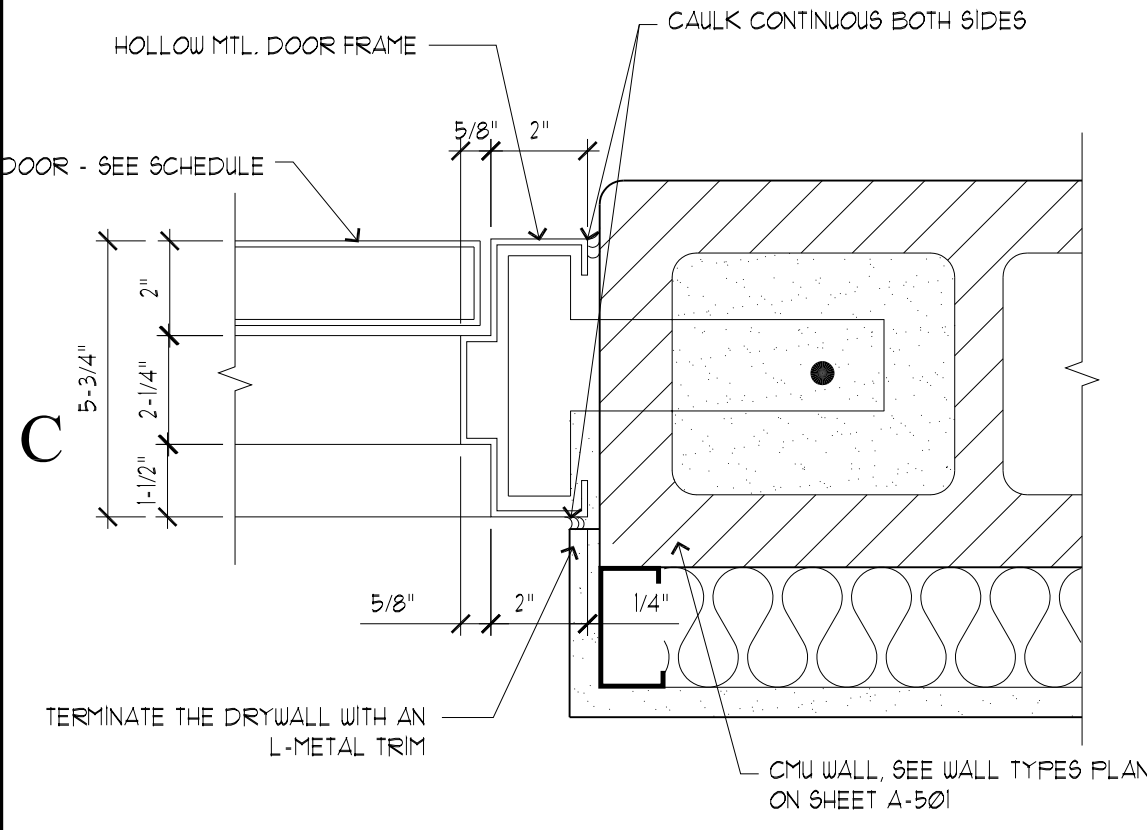
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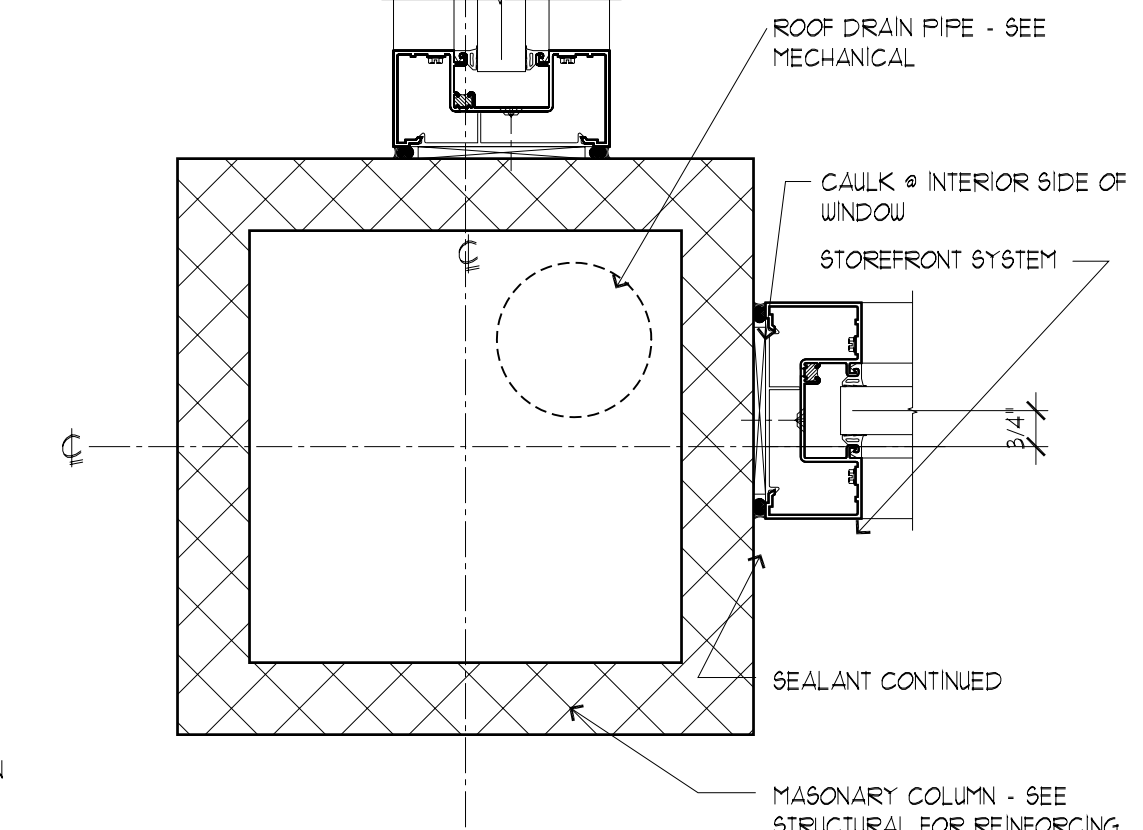
DOOR HEADER DETAIL - MASONRY WALL
SCALE: 3" = 1'-0"



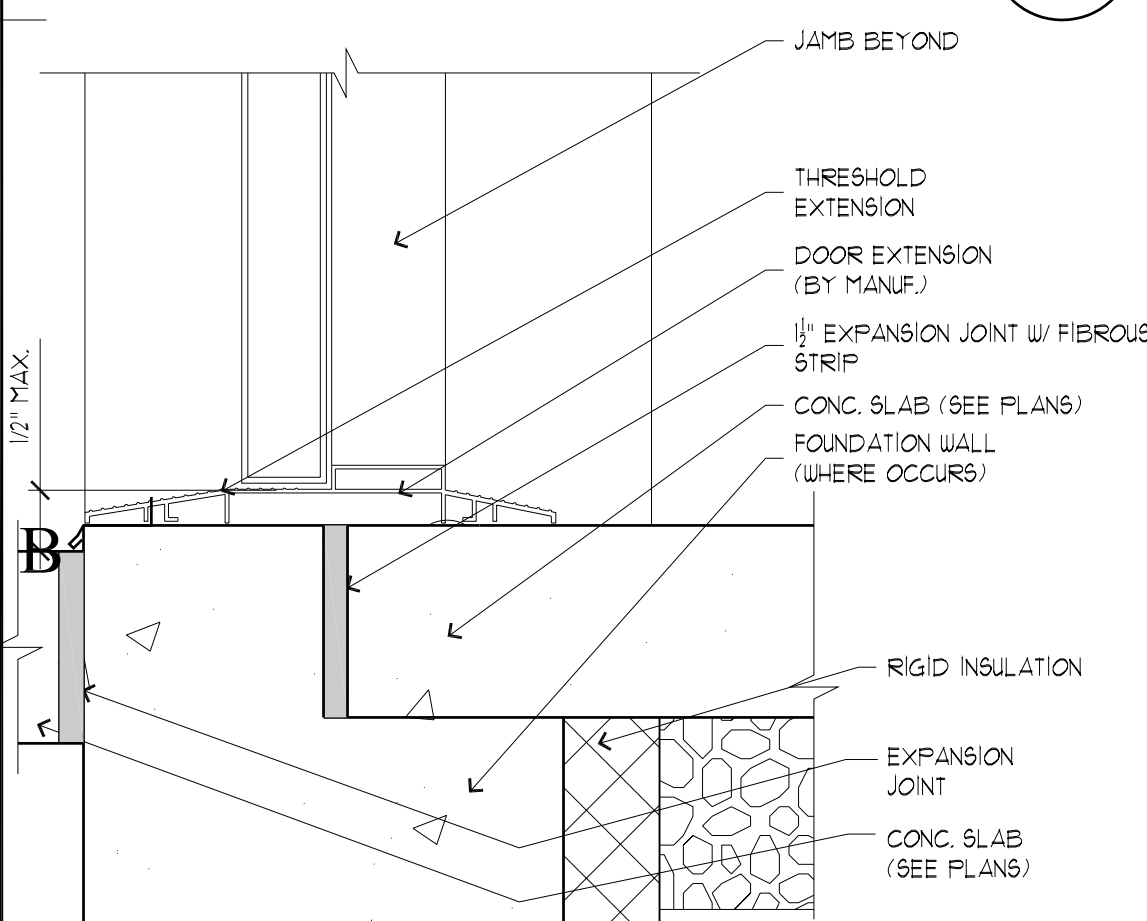
STOREFRONT WINDOW HEAD
SCALE: 3" = 1'-0"



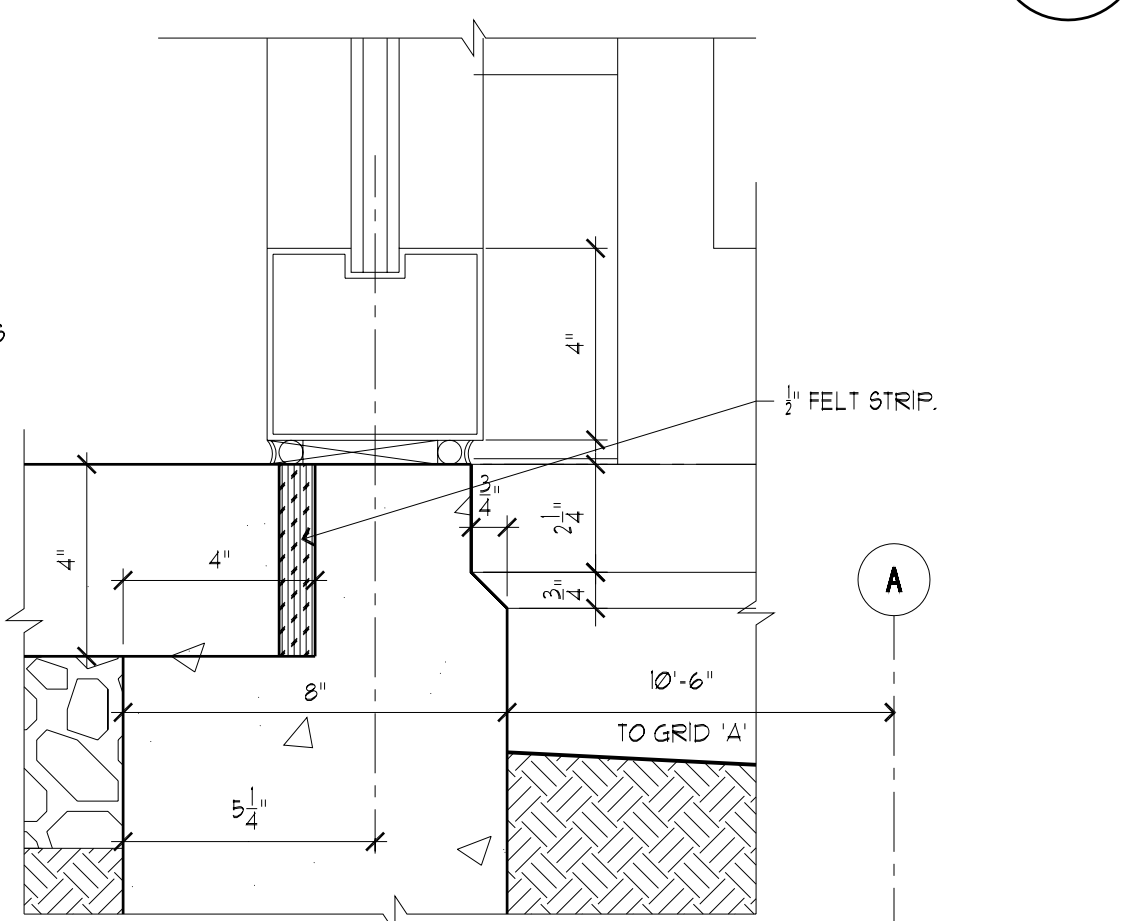
DOOR JAMB DETAIL - MASONRY WALL
SCALE: 3" = 1'-0"



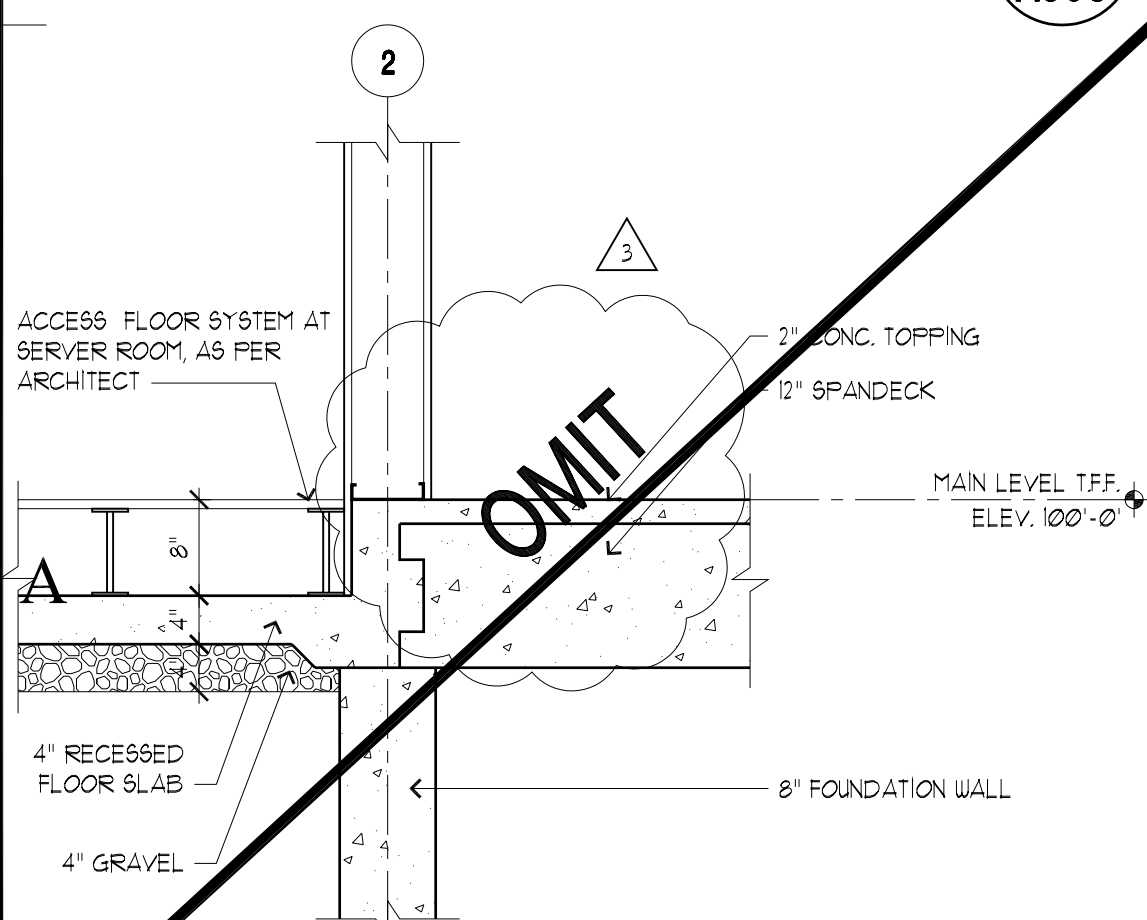
STOREFRONT JAMB DETAIL
SCALE: 3" = 1'-0"



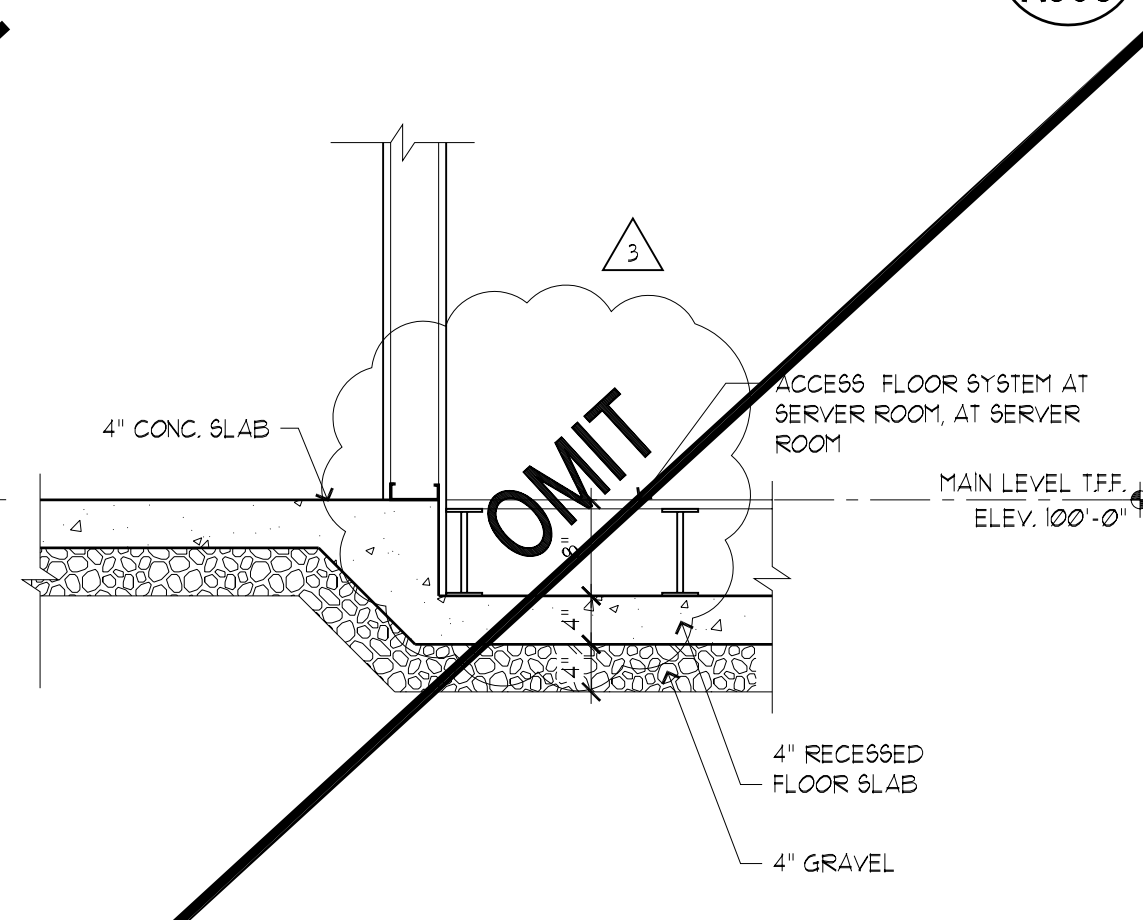
DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



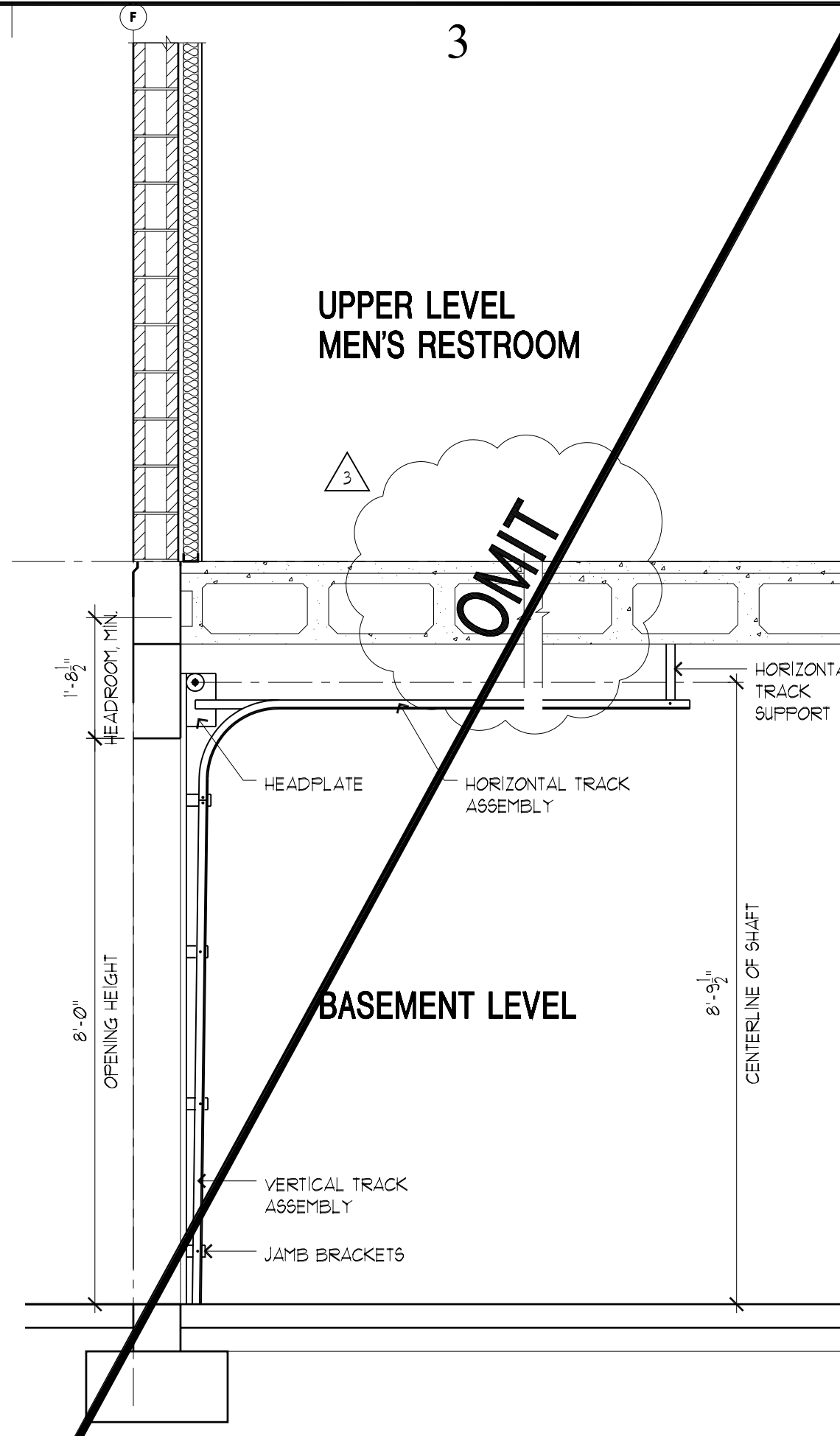
STOREFRONT SILL DETAIL
SCALE: 3" = 1'-0"



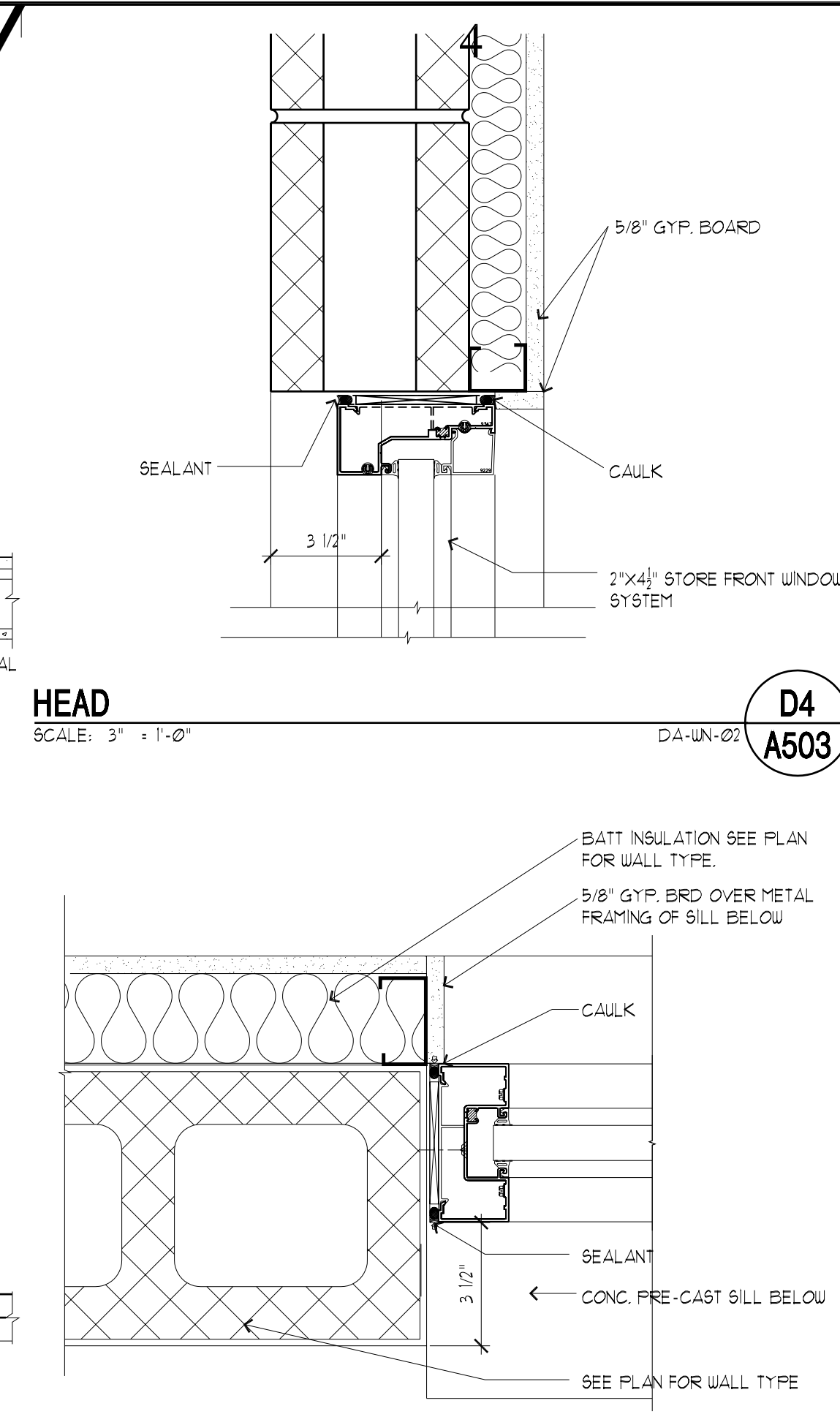
RECESSED FLOOR DETAIL @ SERVER ROOM
SCALE: 3/4" = 1'-0"



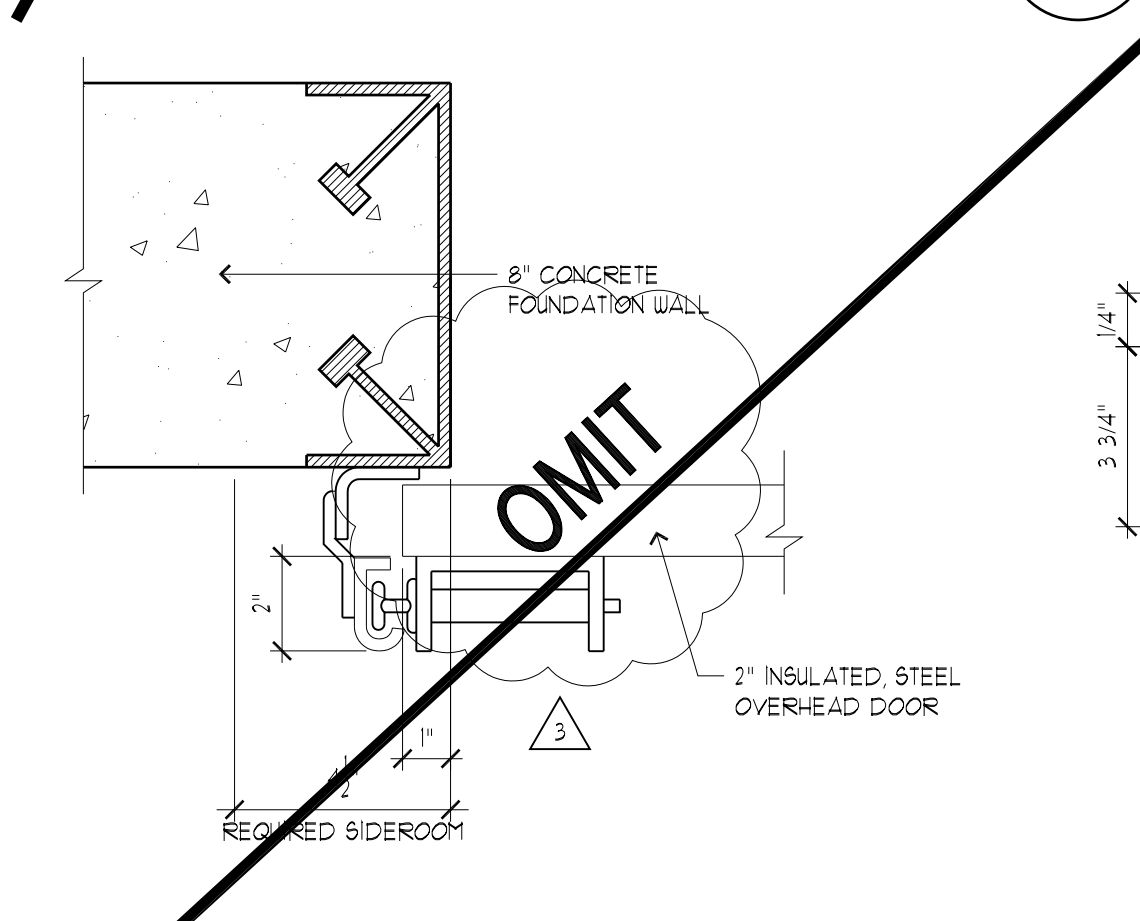
RECESSED FLOOR DETAIL @ SERVER ROOM
SCALE: 3/4" = 1'-0"



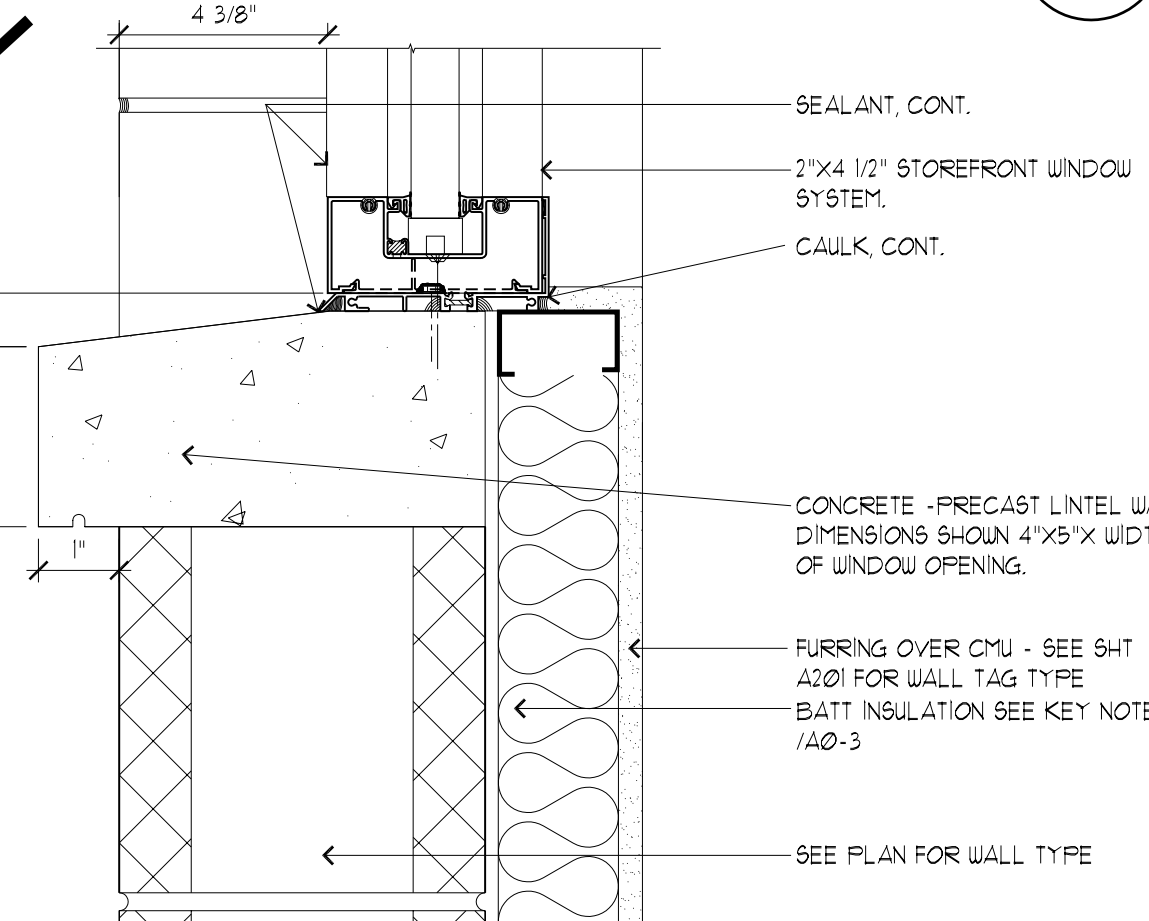
OVERHEAD DOOR DETAIL
SCALE: 1" = 1'-0"



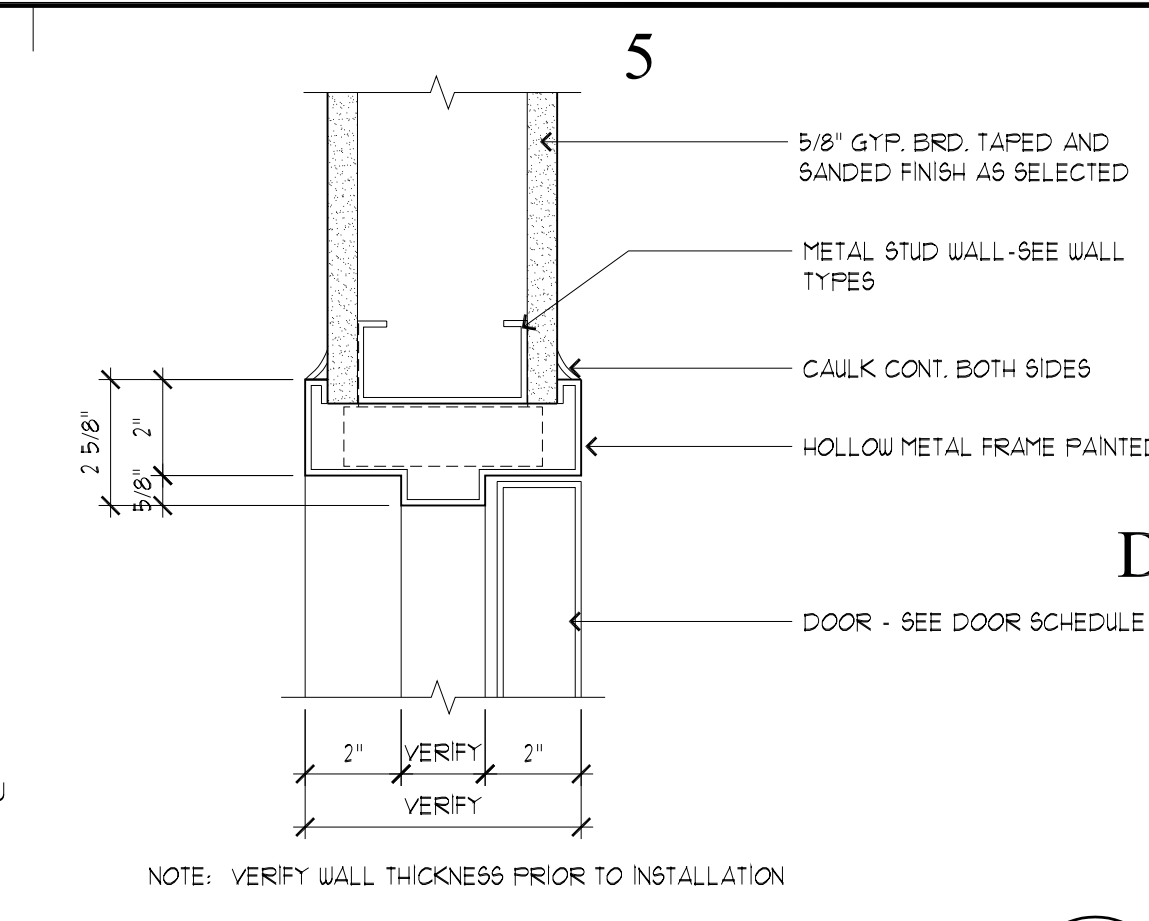
JAMB
SCALE: 3" = 1'-0"



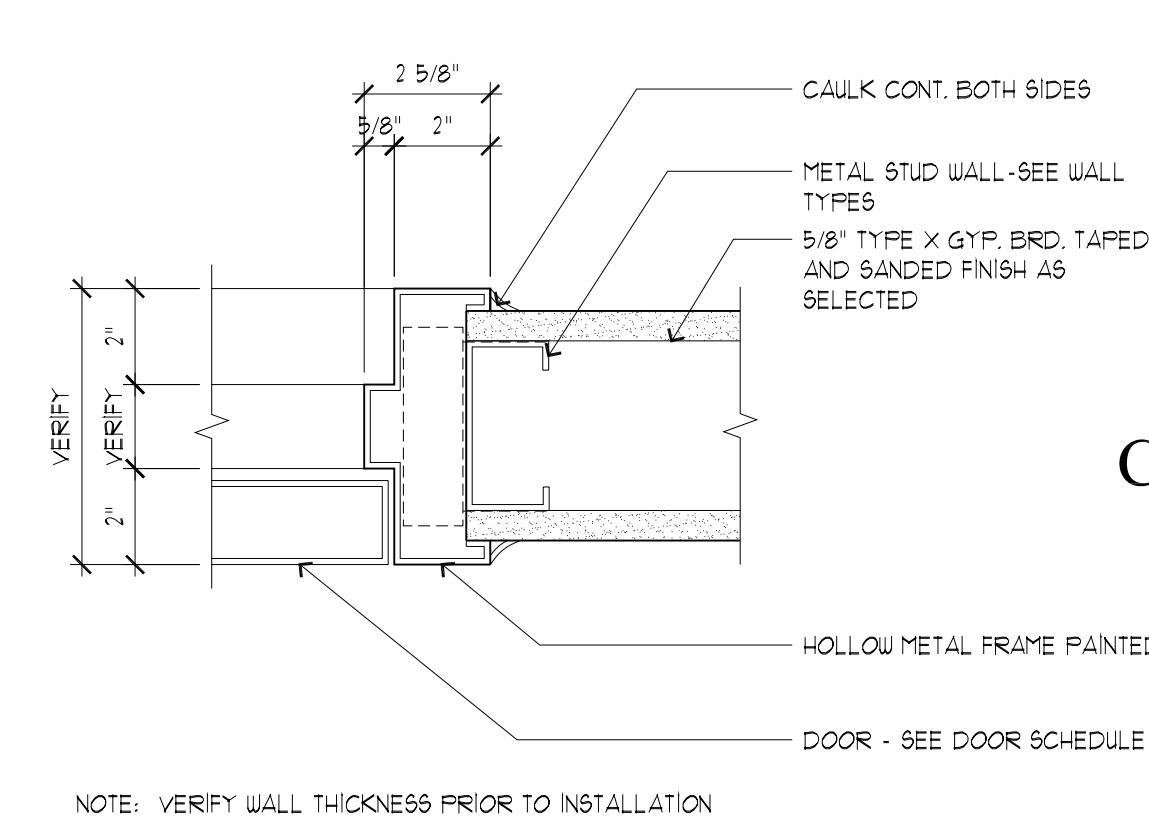
OVERHEAD DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



STOREFRONT WINDOW SILL
SCALE: 3" = 1'-0"



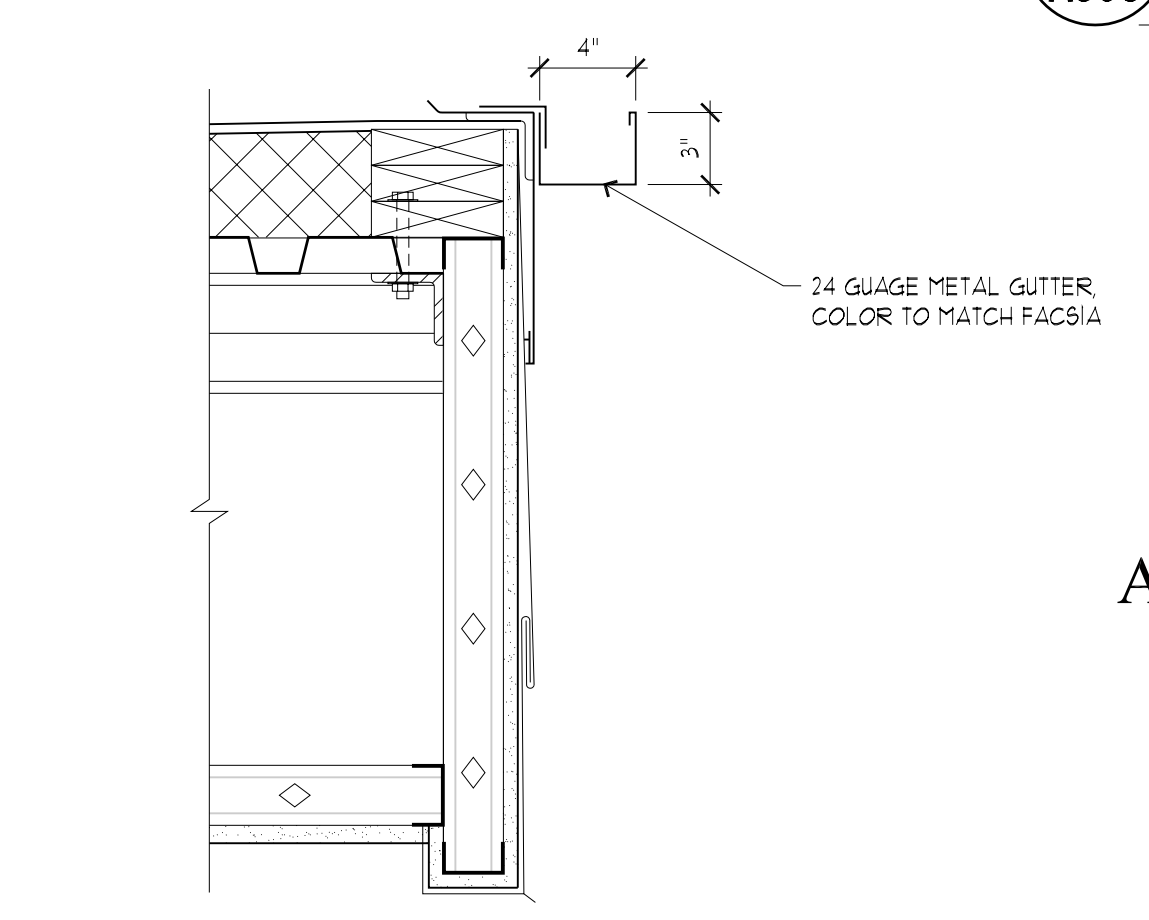
DOOR HEADER DETAIL
SCALE: 3" = 1'-0"



DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



STOREFRONT WINDOW SILL
SCALE: 3" = 1'-0"



GUTTER DETAIL
SCALE: 1 1/2" = 1'-0"

CREATED BY: JSA ARCHITECTS

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CONSULTANTS:

BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

DFCM PROJECT NO: 05006480

CAD PROJECT NO: 0516

CAD DWG FILE:

DRAWN BY: CDJ

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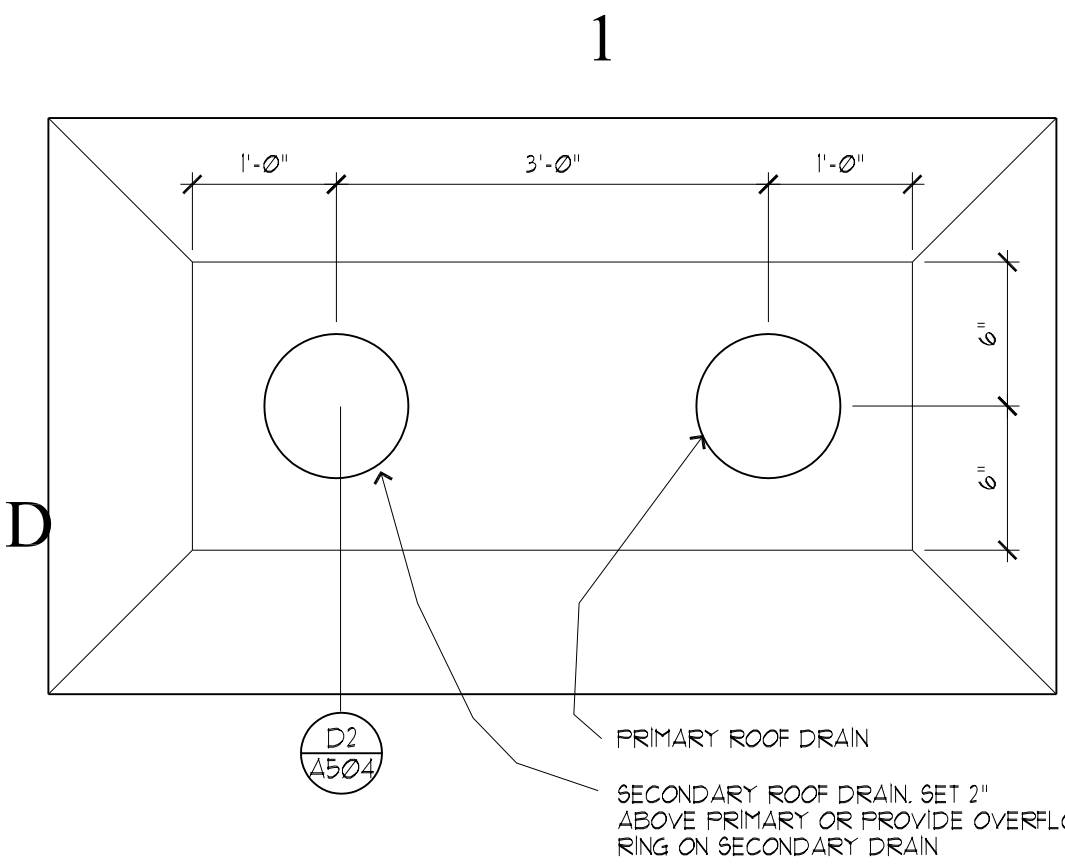
SHEET TITLE

ROOF &
ARCH. DETAILS

SHEET NUMBER

A-5 04

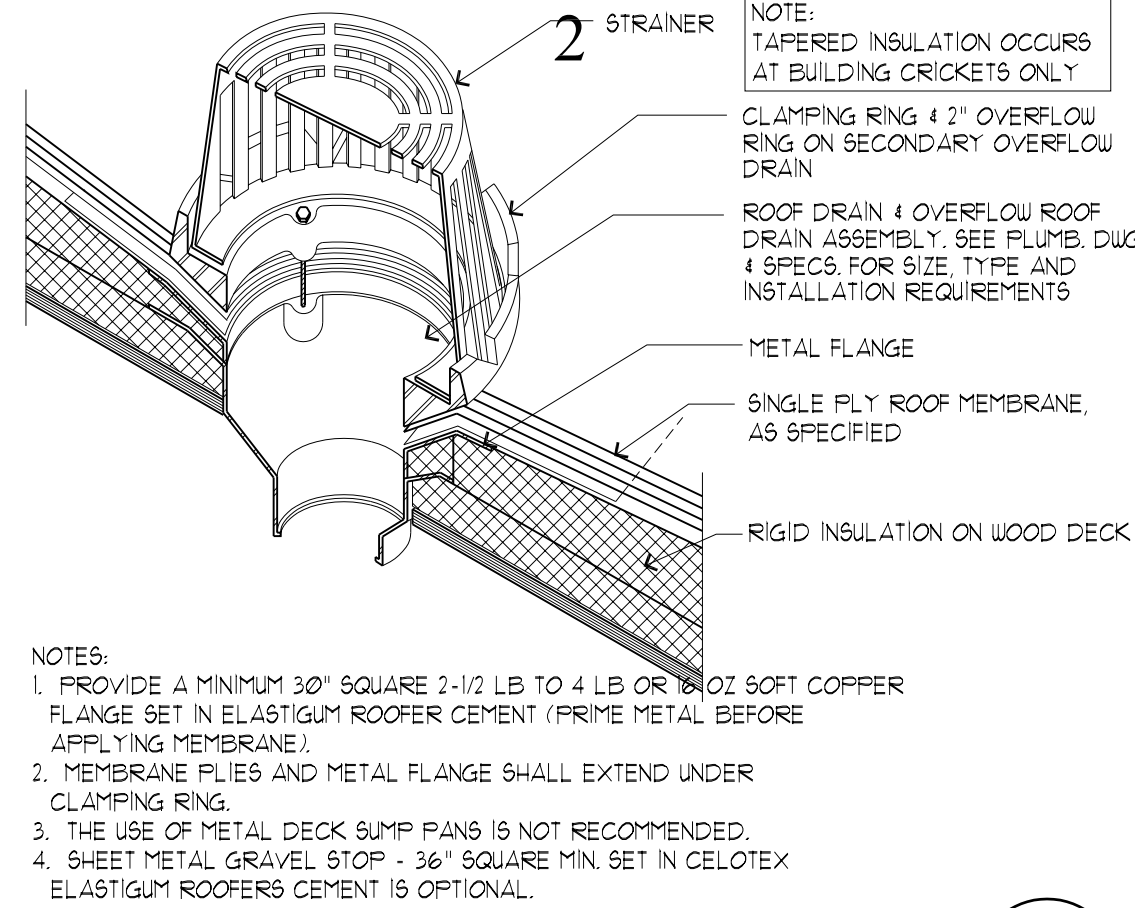
SHEET 026 OF 055



ROOF DRAIN DETAIL

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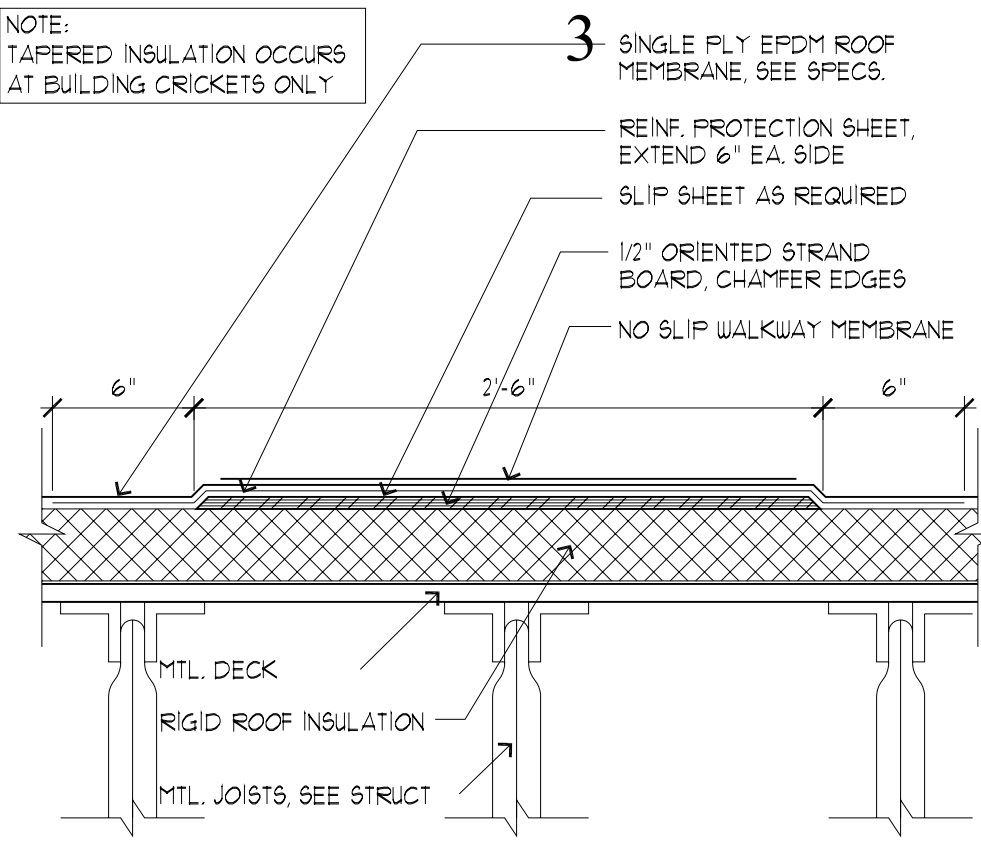
D1
A504



ROOF DRAIN DETAIL

SCALE: NTS = 1'-0"

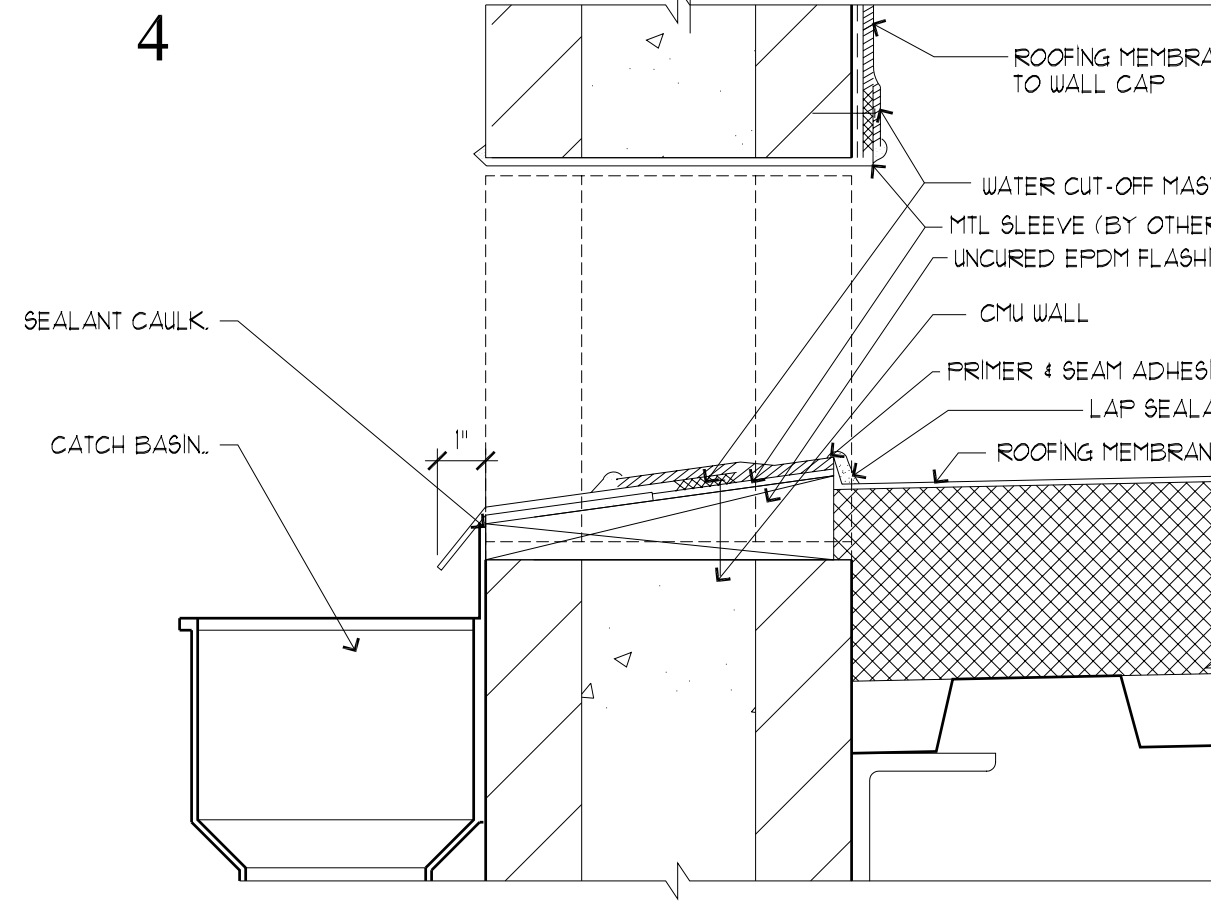
D2
A504



REINFORCED ROOF WALKWAY

SCALE: 1-1/2" = 1'-0"

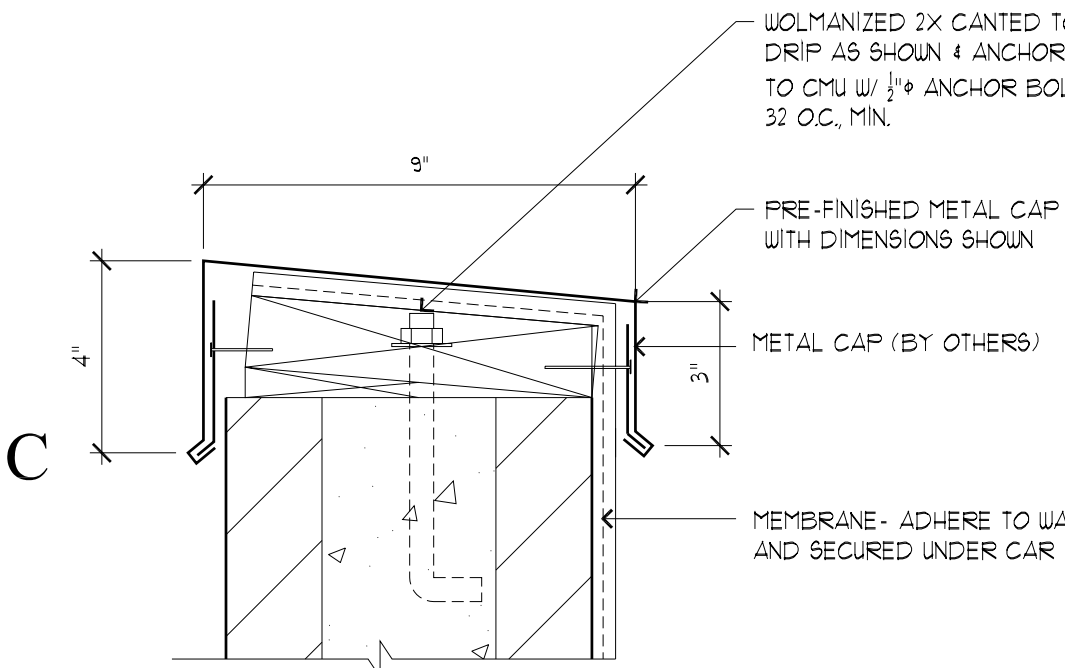
D3
A504



METAL SLEEVE SCUPPER

SCALE: 3" = 1'-0"

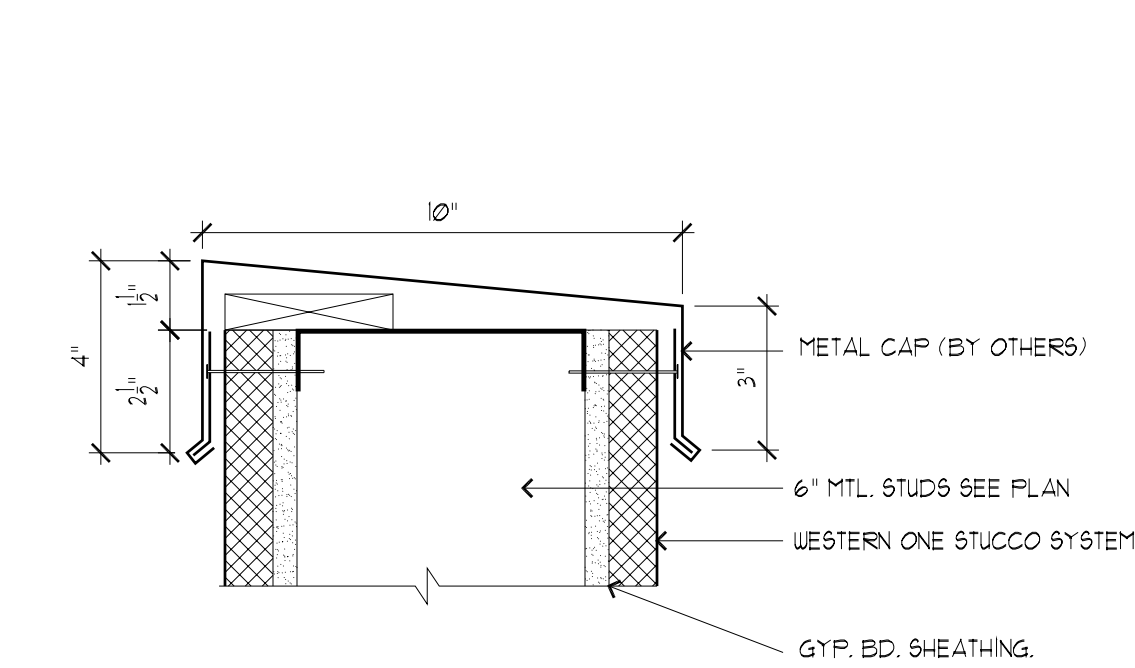
D5
A504



METAL CAP FLASHING

SCALE: 3" = 1'-0"

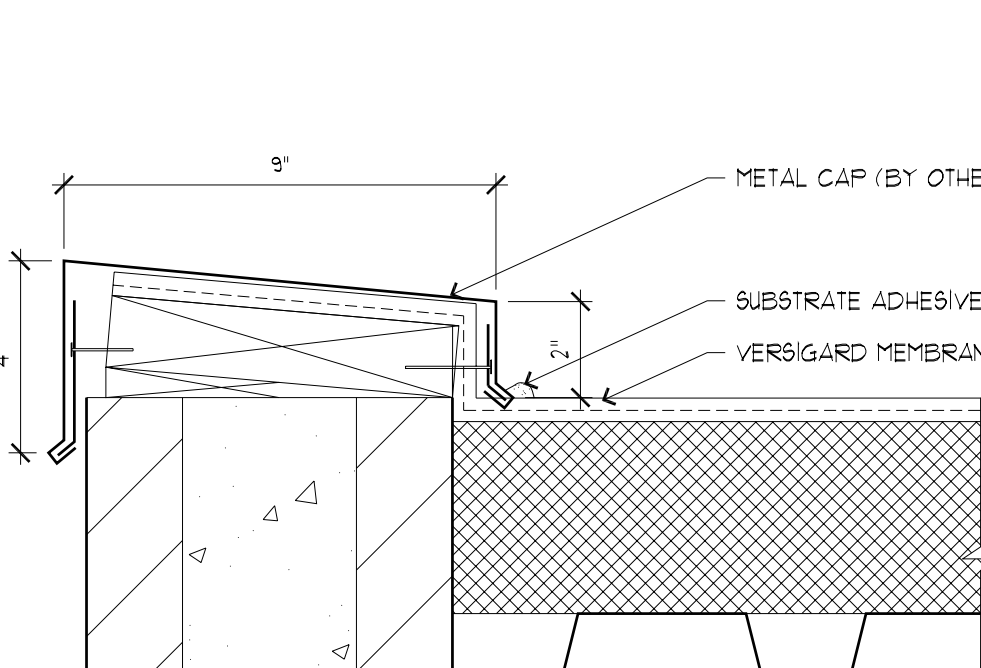
C1
A504



METAL CAP FLASHING

SCALE: 3" = 1'-0"

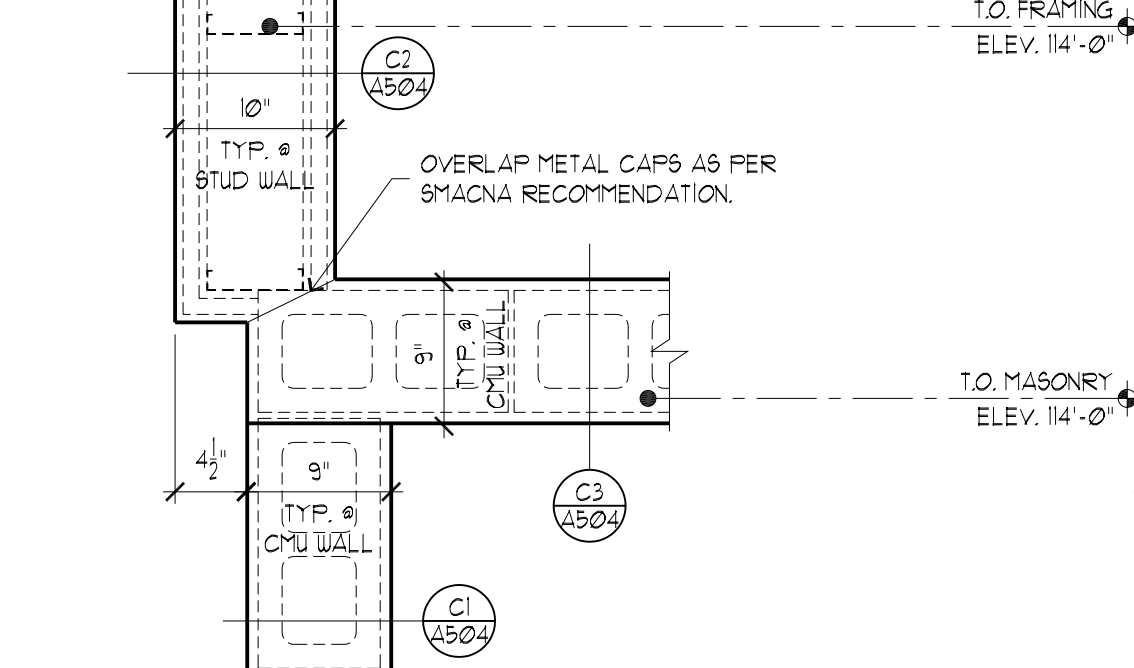
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METAL CAP FLASHING

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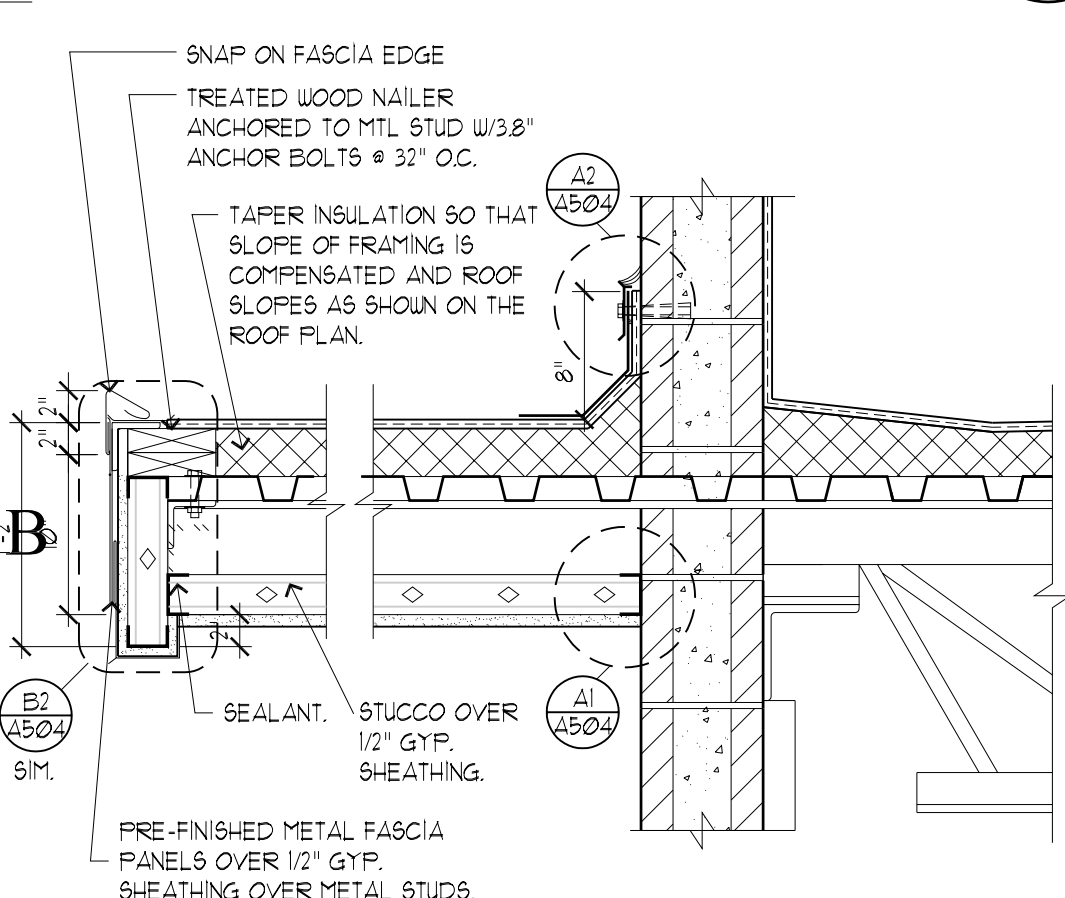
C3
A504



METAL PARAPET CAP TRANSITION DETAIL

SCALE: 1" = 1'-0"

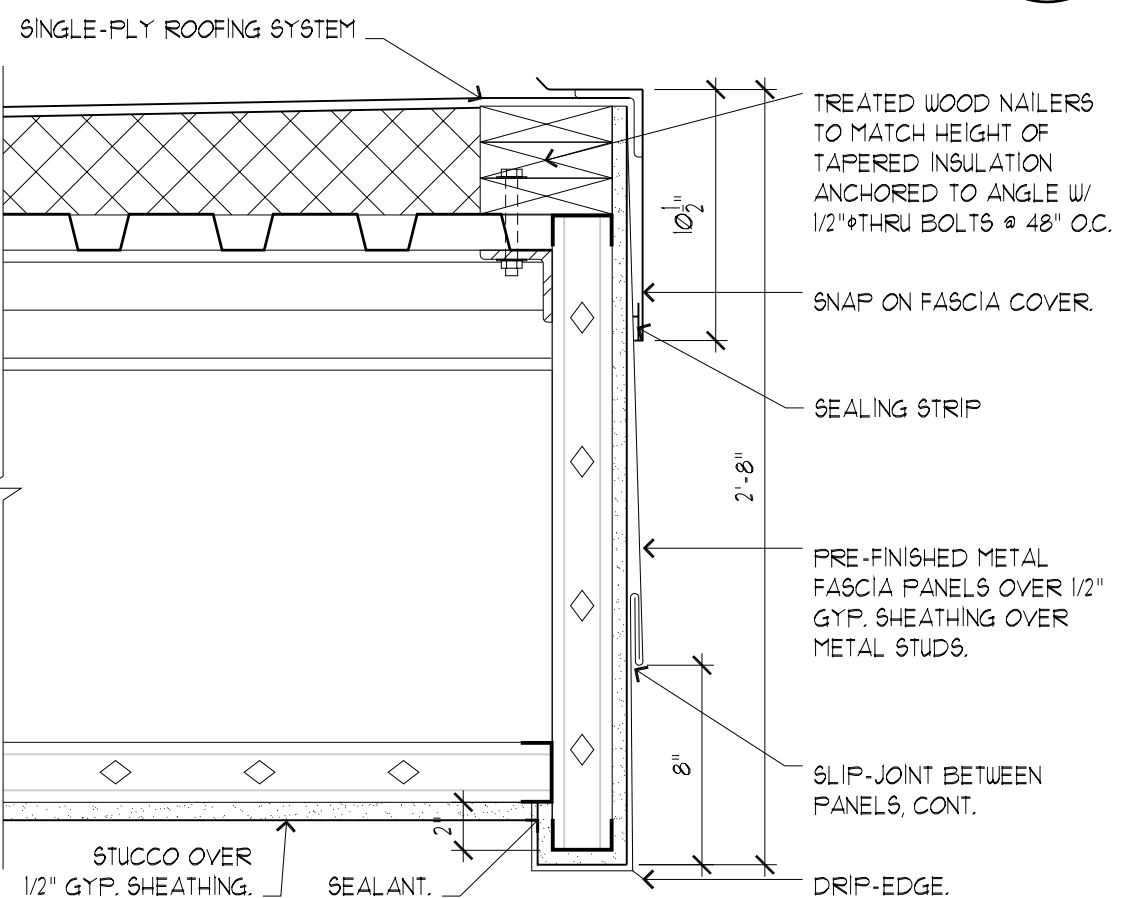
C4
A504



FASCIA DETAIL

SCALE: 1" = 1'-0"

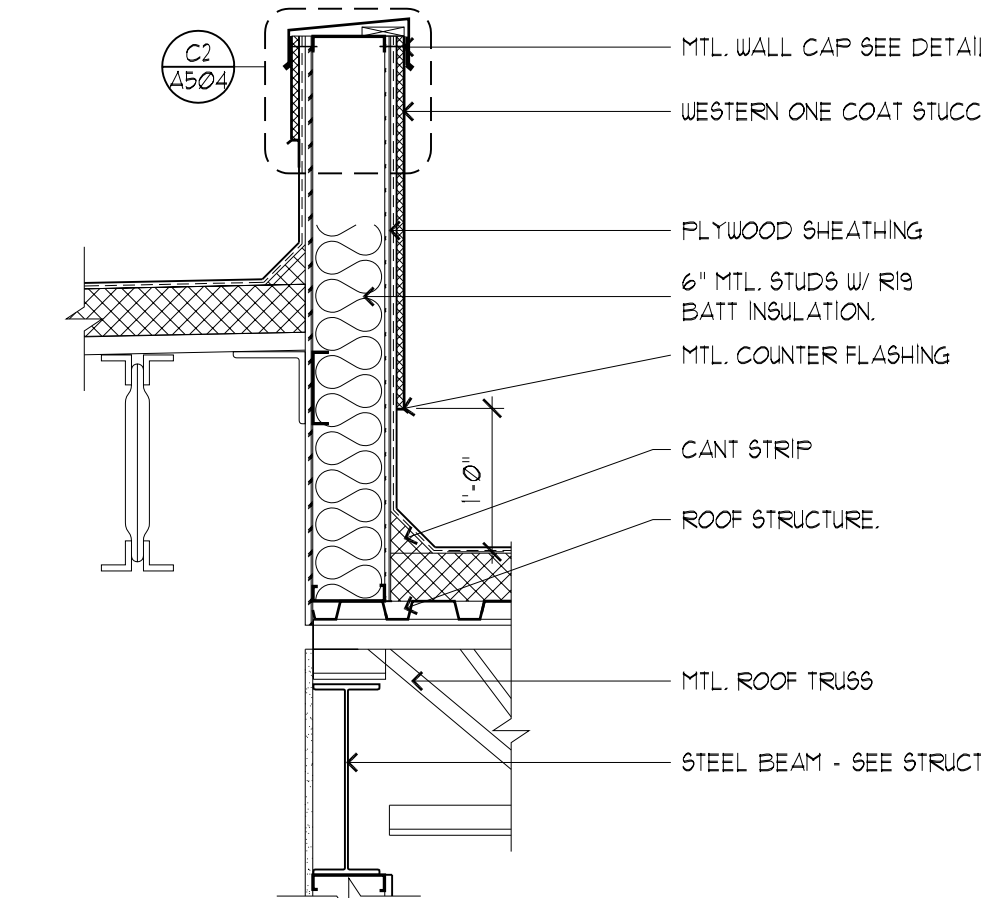
B1
A504



FASCIA DETAIL

SCALE: 1 1/2" = 1'-0"

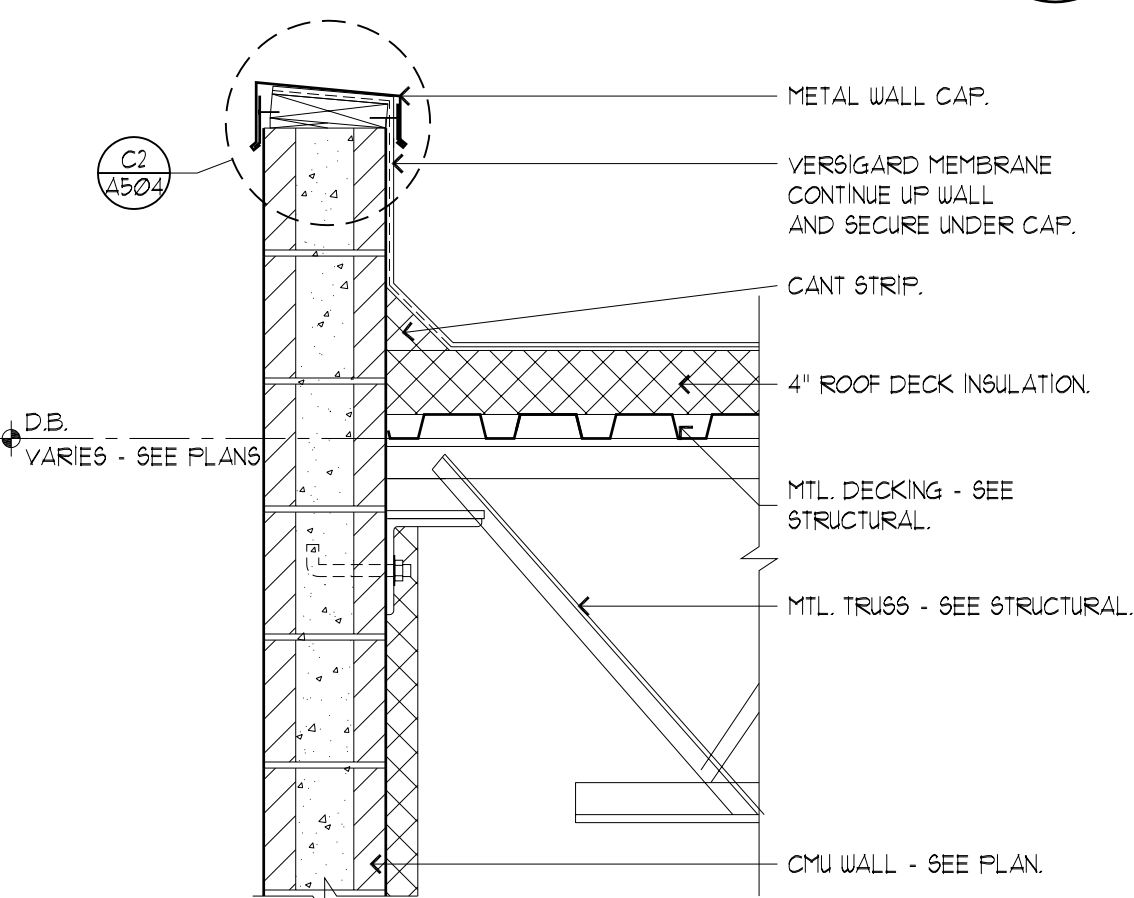
B2
A504



ROOF FLASHING DETAIL

SCALE: 3/4" = 1'-0"

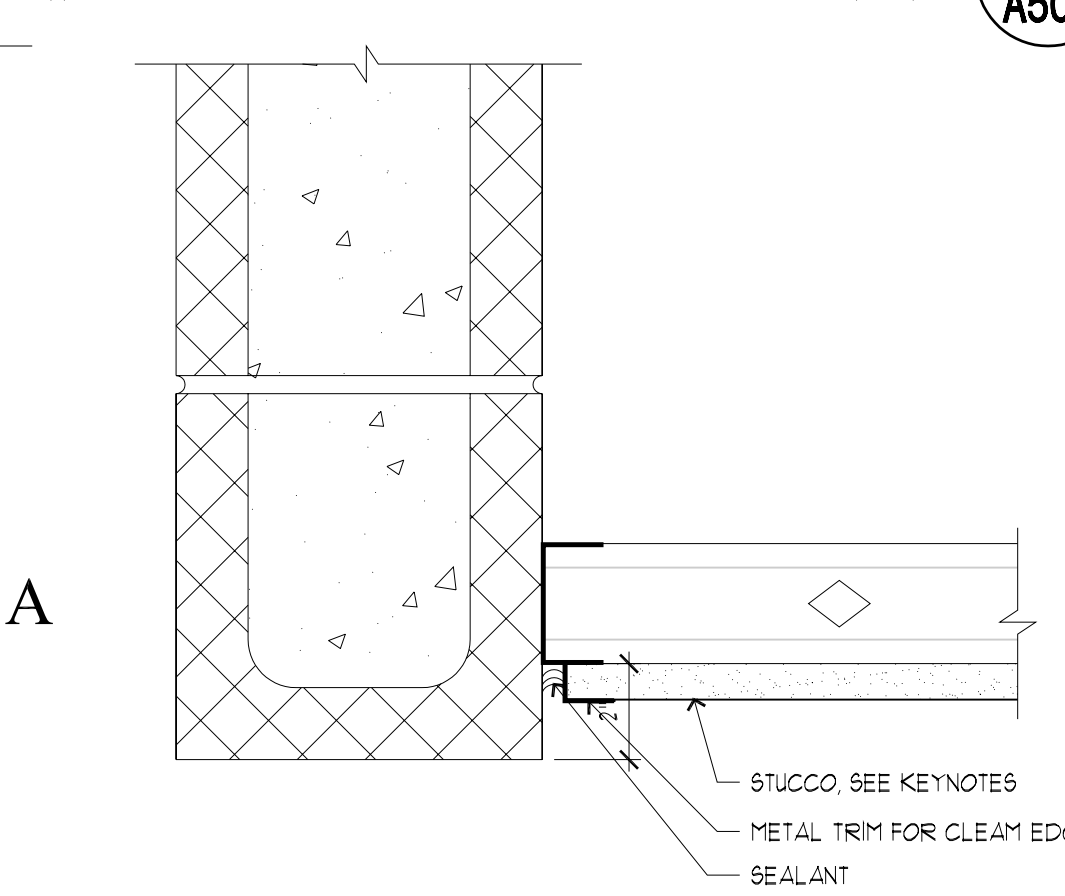
B3
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FLASHING DETAIL

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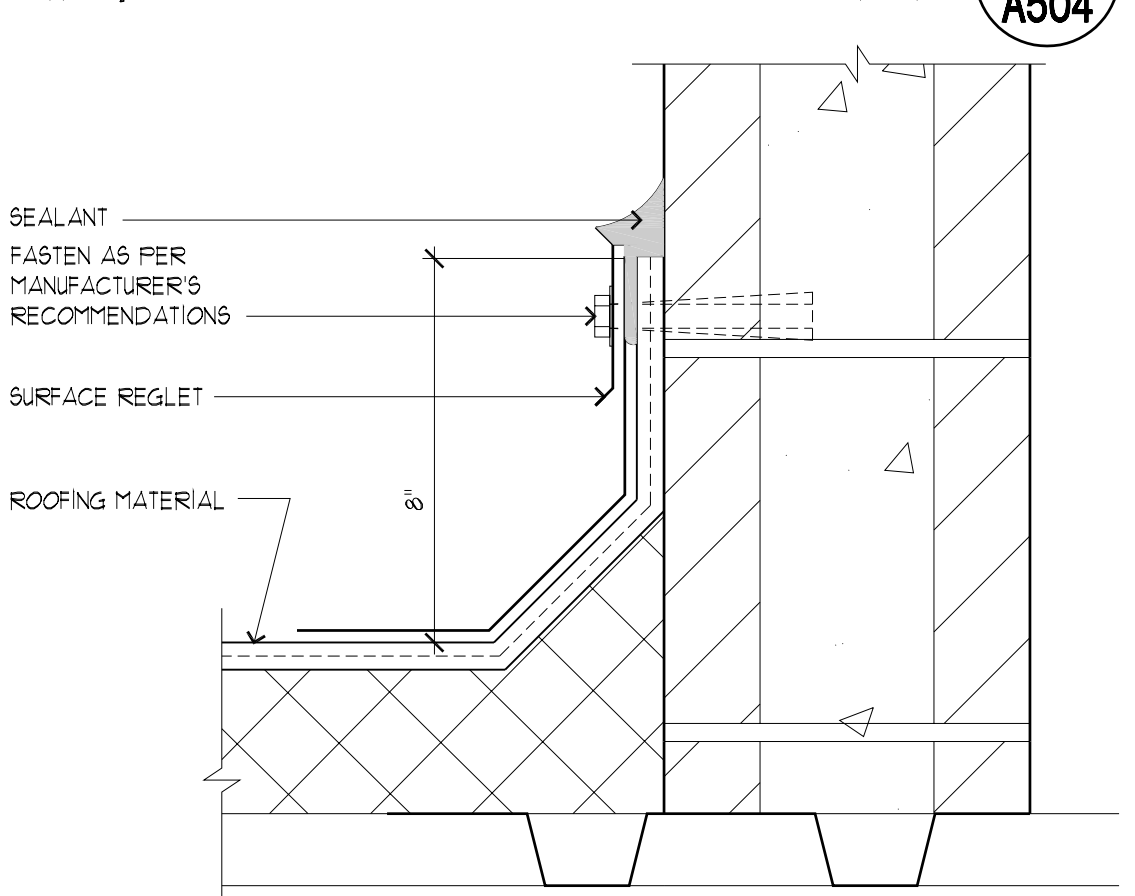
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CONNECTION DETAIL @ REAR CANOPY

SCALE: 3" = 1'-0"

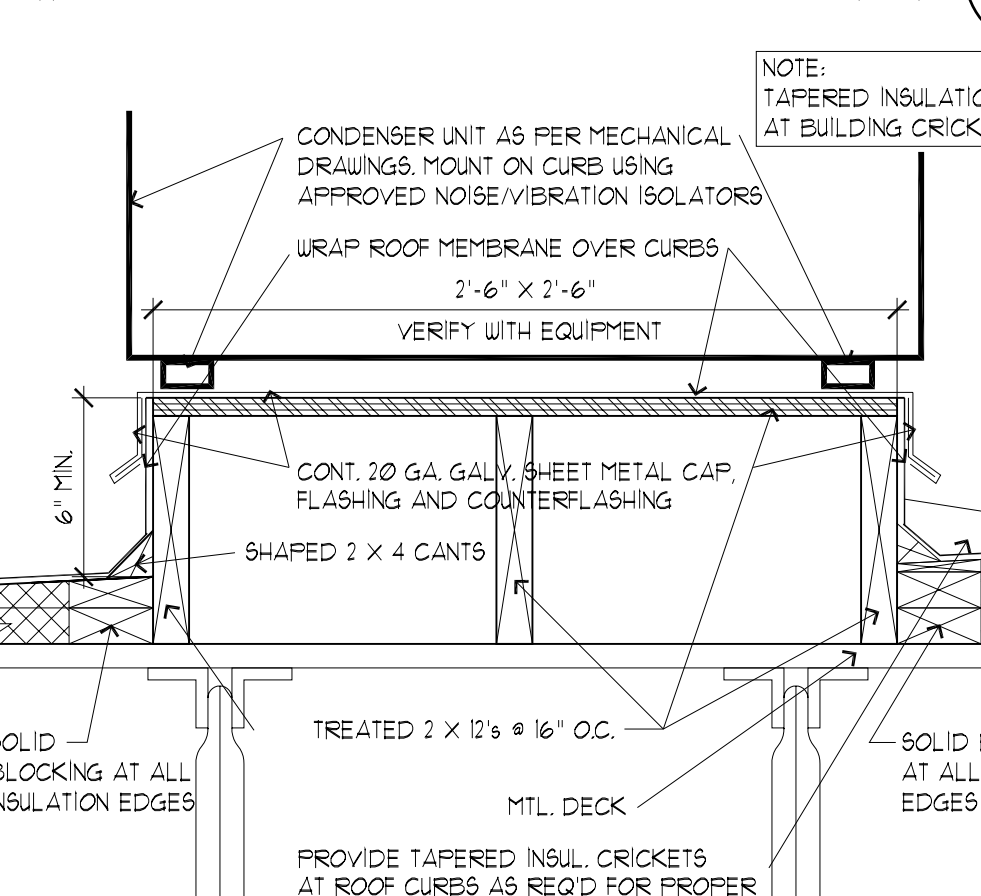
A1
A504



SURFACE REGLET DETAIL

SCALE: 3" = 1'-0"

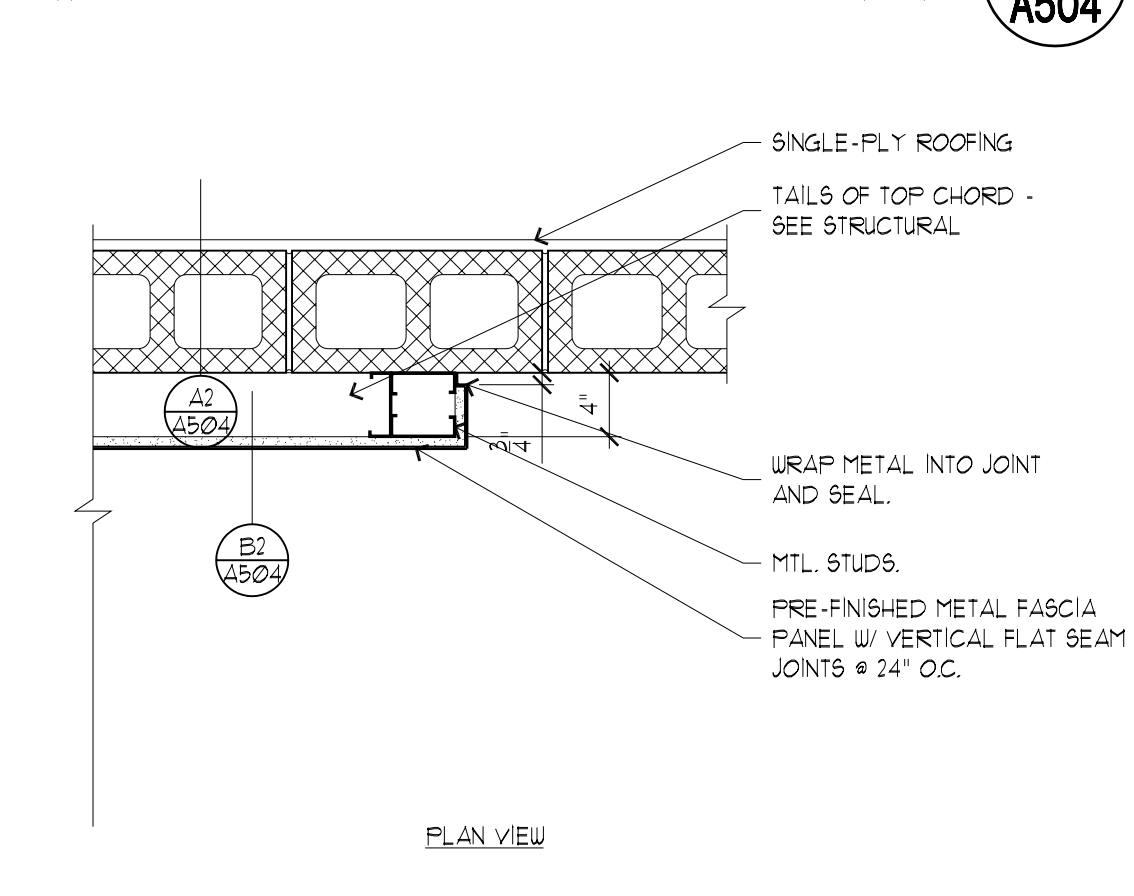
A2
A504



CURB DETAIL AT CONDENSER UNIT

SCALE: 1-1/2" = 1'-0"

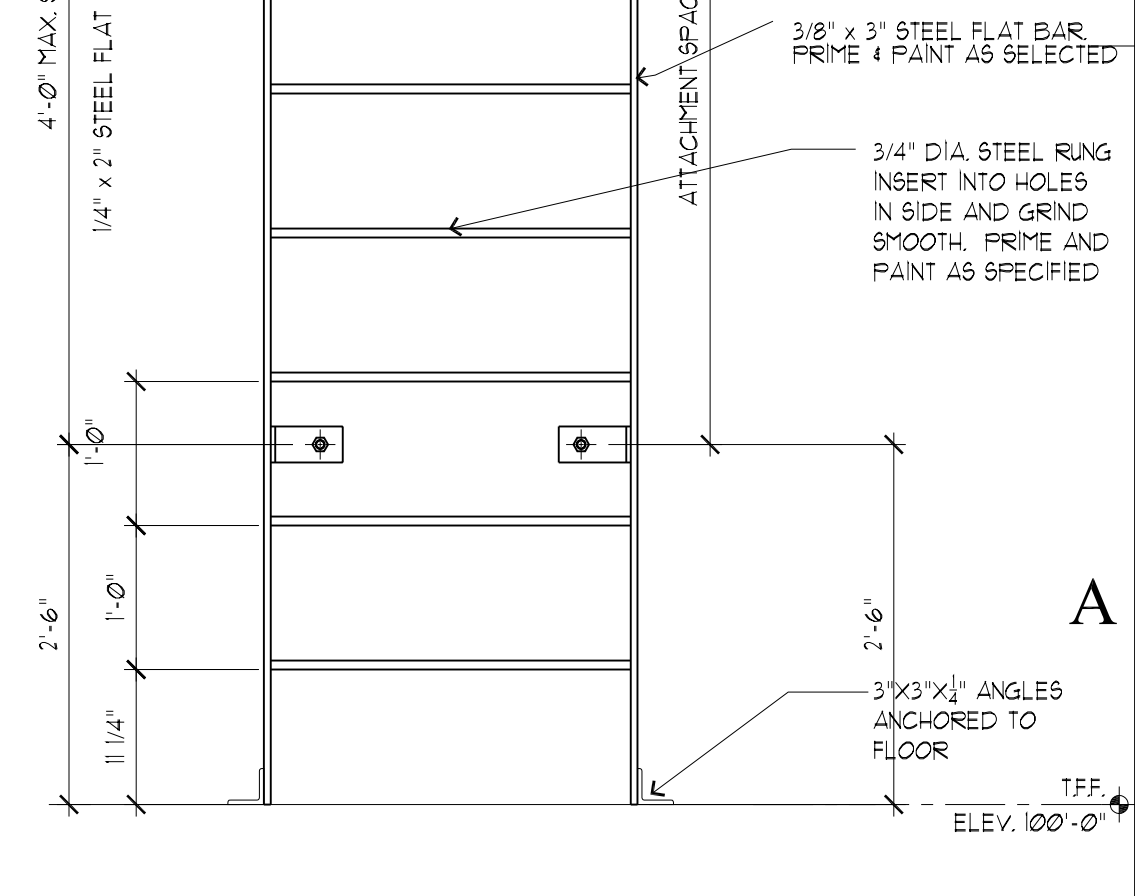
A3
A504



PLAN VIEW OF ROOF CORNER

SCALE: 1" = 1'-0"

A4
A504



ROOF SCUTTLE DETAIL

SCALE: 3/4" = 1'-0"

A5
A504

1

2

3

DOOR SCHEDULE

MARK	DOOR						FRAME						FIRE RATING	HARDWARE	REMARKS
	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	FINISH	HEAD	JAMB	SILL	MATERIAL	TYPE	FINISH			
D-001A	NOT USED														
D-001B	NOT USED														
D-01A	3'-0"	7'-0"	1 3/4"	H.M.	D-1	PTD	D1/A-503	C1/A-503	B1/A503	H.M.	F-2	PTD	N.R.	H-1	-
D-02A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	N.R.	H-2	-
D-03A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-4	-
D-04A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-3	-
D-05A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-3	-
D-06A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-6	-
D-07A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-3	-
D-08A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-6	-
D-09A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-4	-
D-10A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	N.R.	H-4	-
D-11A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	N.R.	H-2	-
D-12A	3'-0"	7'-0"	1 3/4"	H.M.	D-1	PTD	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-5	-
D-13A	3'-0"	7'-0"	1 3/4"	H.M.	D-1	PTD	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-5	-
D-14A	3'-0"	7'-0"	1 3/4"	H.M.	D-1	PTD	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-5	-
D-15A	3'-0"	7'-0"	1 3/4"	H.M.	D-1	PTD	D5/A503	C5/A503	-	H.M.	F-1	PTD	20 min.	H-3	-
D-16A	3'-0"	7'-0"	1 3/4"	S.C.	D-2	STAIN	D5/A503	C5/A503	-	H.M.	F-1	PTD	N.R.	H-4	-
D-16A	NOT USED														
D-16B	NOT USED														

NOTE: SEE SPECIFICATIONS FOR HARDWARE SCHEDULE.

DOOR TYPES

SCALE: 1/4" = 1'-0"

4

5

D-1

D-2

D-3

DOOR TYPES

SCALE: 1/4" = 1'-0"

F-1

F-2

F-3

DOOR TYPES

SCALE: 1/4" = 1'-0"

jsa

architecture
planning
interiors

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801.278.8151 fax 801.278.8661

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CONSULTANTS:

BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

DFCM PROJECT NO: 05006480

CAD PROJECT NO: 0516

CAD DWG FILE:

DRAWN BY: CDJ

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SHEET TITLE

DOOR HARDWARE
SCHEDULE

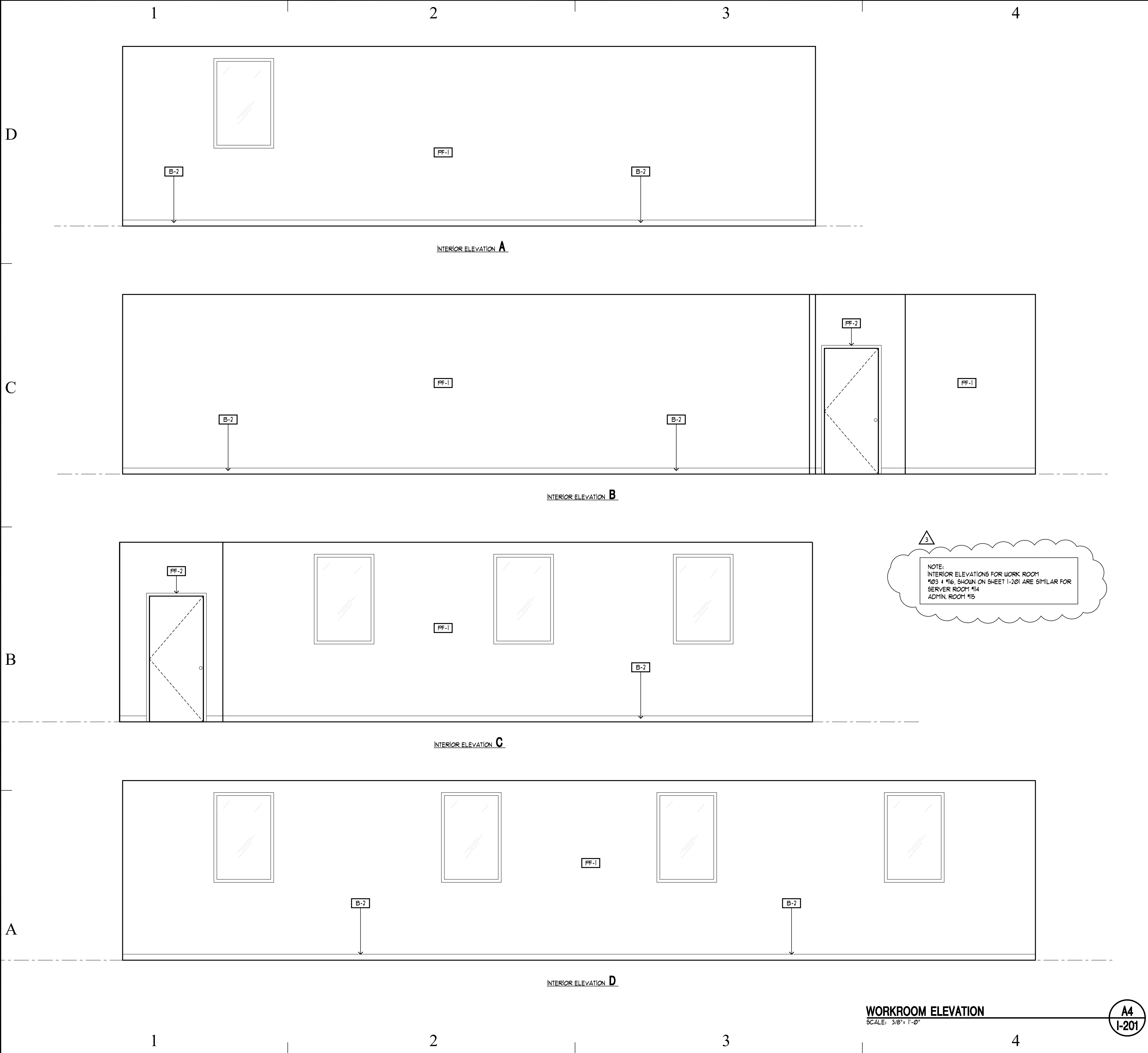
SHEET NUMBER

A-6 01

SHEET 028 OF 055

INTERIOR FINISH LEGENDS

BASE LEGEND (B)						
MARK	MATERIAL TYPE	COLOR	SIZE	MANUFACTURER	MANUFACTURER #	INSTALLATION INSTRUCTION/DETAIL
B-1	6" TILE BASE	BISCUIT	6X6	DAL-TILE	K175	COVER, OR APPROVED EQUAL
B-2	6" RUBBER BASE	AS SEL.	6"	JOHNSONITE	AS SEL.	STATE CONTRACT



LEGEND- INTERIOR ELEVATIONS

XX

INTERIOR FINISH
SEE FINISH LEGENDS

○

KEY REFERENCE NOTES

??

REVISION CLOUD

KEYNOTES

①

JANITOR'S HOOK AND SHELF - SEE RESTROOMS ACCESSORIE SCHEDULE ON SHEET I200.

②

MOP SINK, SEE MECHANICAL FOR TYPE.

③

DRINKING FOUNTAINS - SEE MECHANICAL FOR TYPE.

④

BLOCKING AS PART OF METAL STUD WALL - SEE DETAIL A3/A501. USE TYPE "3.

⑤

8" GYP. BD. SOFFIT - SEE DETAIL NOTED.

⑥

NO BASE BEHIND AREAS DESIGNATED FOR LOCKERS.

⑦

BENCH SHOWN ARE OWNER PROVIDE AND OWNER INSTALLED

⑧

TOILET PARTITION - SEE SPECIFICATIONS SECTION 10155.

⑨

ROD & CURTAIN PROVIDED BY OWNER AND INSTALLED BY OWNER.

⑩

PRE-FABRICATED SOWER STALL - SEE PLUMBING FOR TYPE.

⑪

COORDINATE OUTLET HEIGHT FOR MICROWAVE.

⑫

ALTERNATE "3 - CHAIR RAIL MOLDING, STAINED - SEE DETAIL A2/A502.

⑬

ALTERNATE "3 - CORNICE MOLDING, STAINED - SEE DETAIL D5/A502.

GENERAL NOTES

1.

SEE SHEET I200 FOR FINISH SCHEDULE AND DETAIL OF FINISHES TAGGED ON THIS SHEET.

2.

FOR PLUMBING FIXTURE MOUNTING HEIGHTS - SEE DETAIL A3/A505.

jsa

architecture
planning
interiors

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salt lake city utah 84121
801. 278. 8151 fax 801. 278. 8661

CREATED BY: JSA ARCHITECTS

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UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2
CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
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△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

DCFM PROJECT NO: 05006480

CAD PROJECT NO: 0516

CAD DWG FILE:

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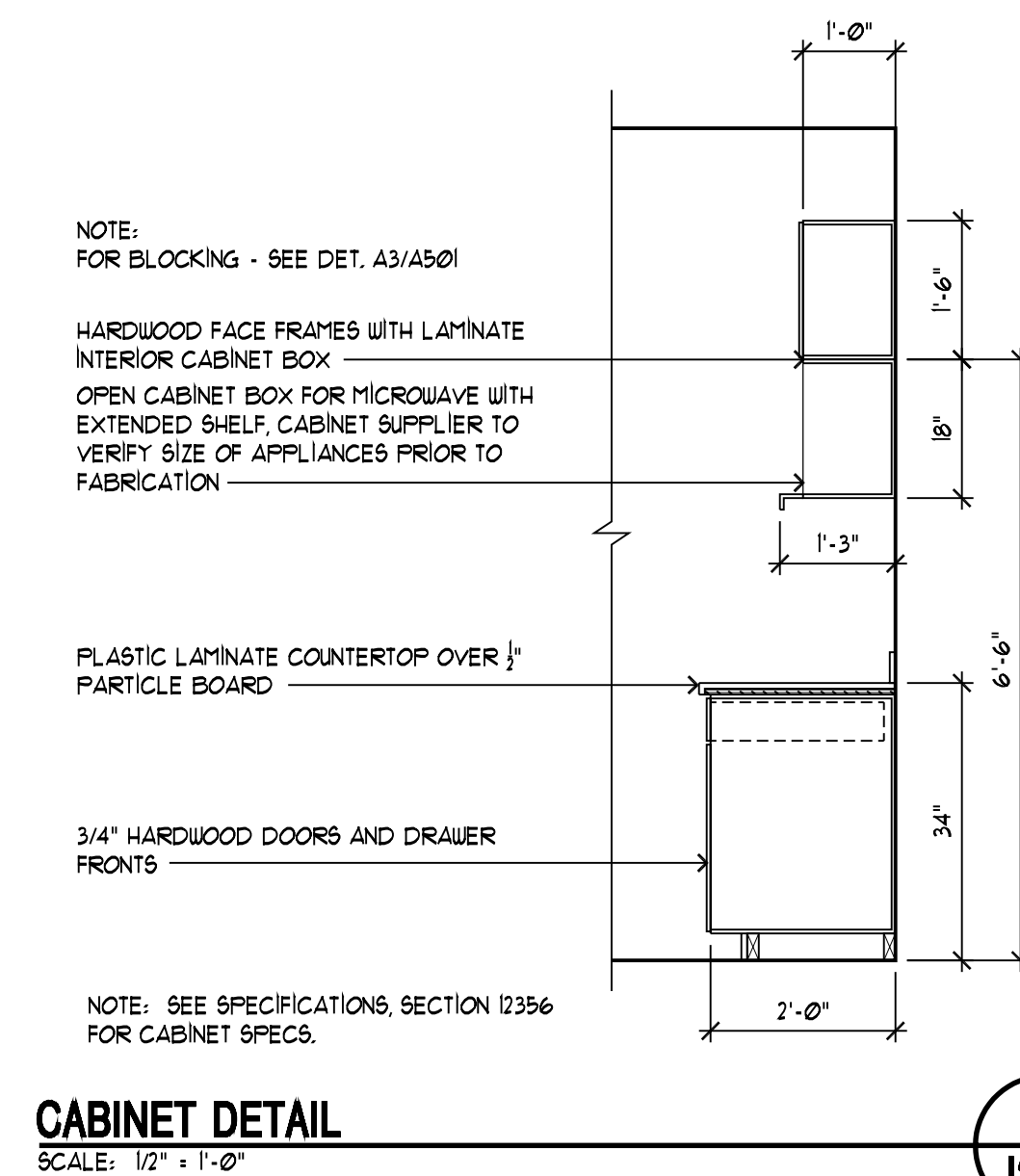
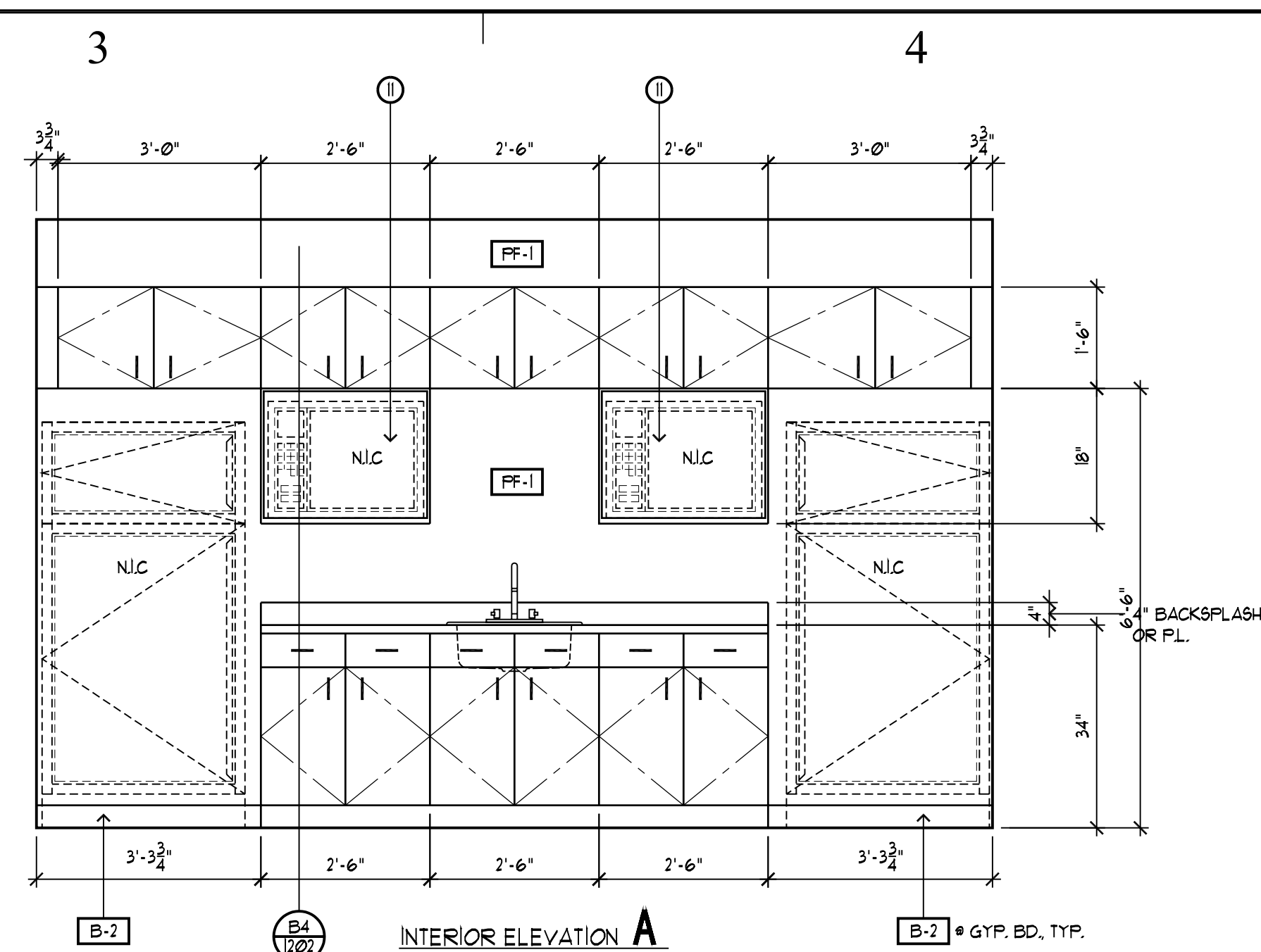
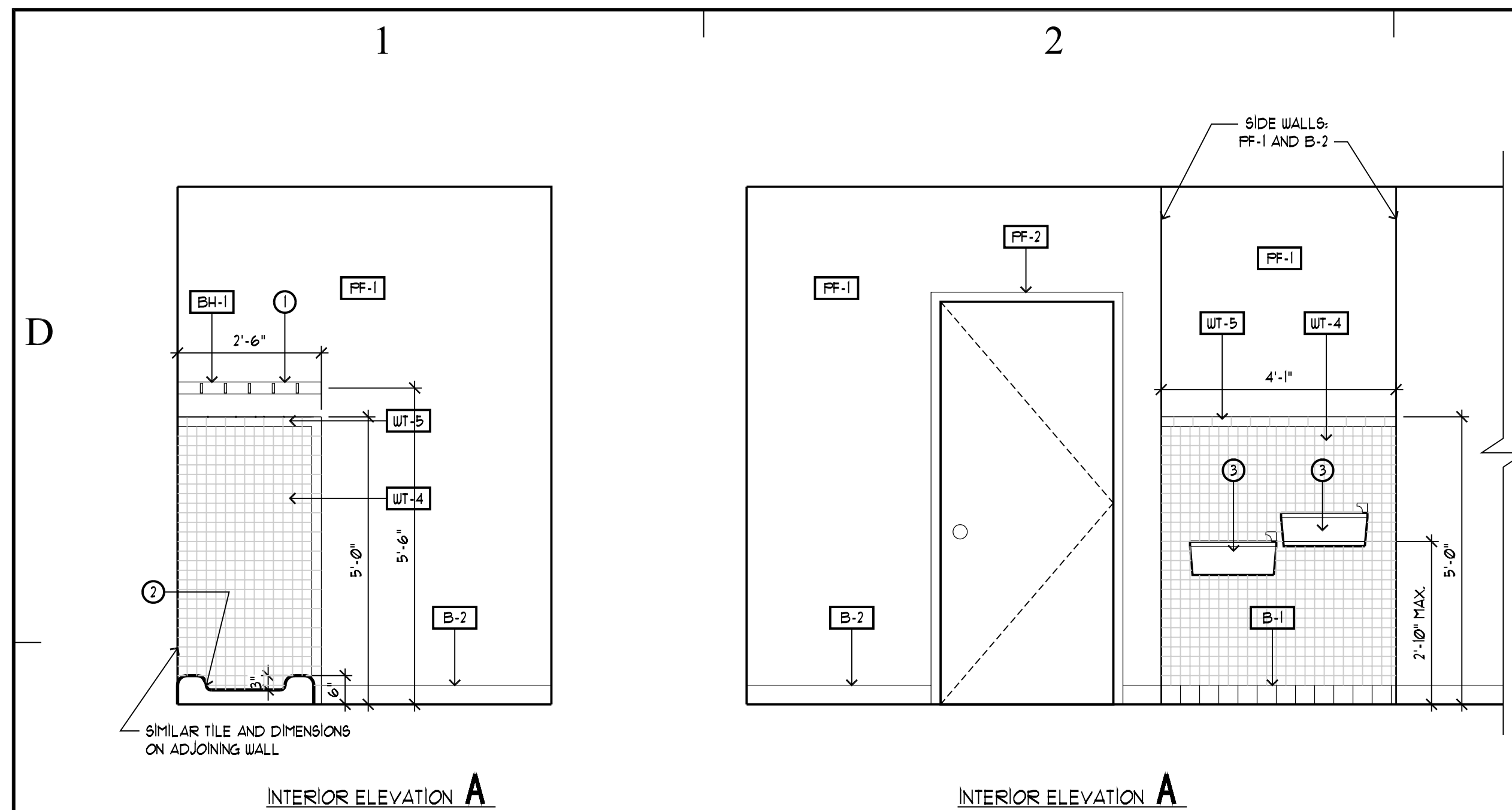
SHEET TITLE

INTERIOR
ELEVATIONS

SHEET NUMBER

I-2 01

SHEET 031 OF 055



5

LEGEND- INTERIOR ELEVATIONS

XX

INTERIOR FINISH
SEE FINISH LEGENDS

●

KEY REFERENCE NOTES

REVISION CLOUD

KEYNOTES

①

JANITOR'S HOOK AND SHELF - SEE RESTROOMS ACCESSORIE SCHEDULE ON SHEET 1200.

②

MOP SINK, SEE MECHANICAL FOR TYPE.

③

DRINKING FOUNTAINS - SEE MECHANICAL FOR TYPE.

④

BLOCKING AS PART OF METAL STUD WALL - SEE DETAIL A3/A501. USE TYPE 13.

⑤

8" GYP. BD. SOFFIT - SEE DETAIL NOTED.

⑥

NO BASE BEHIND AREAS DESIGNATED FOR LOCKERS.

⑦

BENCH SHOWN ARE OWNER PROVIDE AND OWNER INSTALLED

⑧

TOILET PARTITION - SEE SPECIFICATIONS SECTION 1055.

⑨

ROD 4 CURTAIN PROVIDED BY OWNER AND INSTALLED BY OWNER.

⑩

PRE-FABRICATED SQUER STALL - SEE PLUMBING FOR TYPE.

⑪

COORDINATE OUTLET HEIGHT FOR MICROWAVE.

⑫

ALTERNATE 13 - CHAIR RAIL, MOLDING, STAINED - SEE DETAIL A2/A502.

⑬

ALTERNATE 13 - CORNICE MOLDING, STAINED - SEE DETAIL D5/A505.

GENERAL NOTES

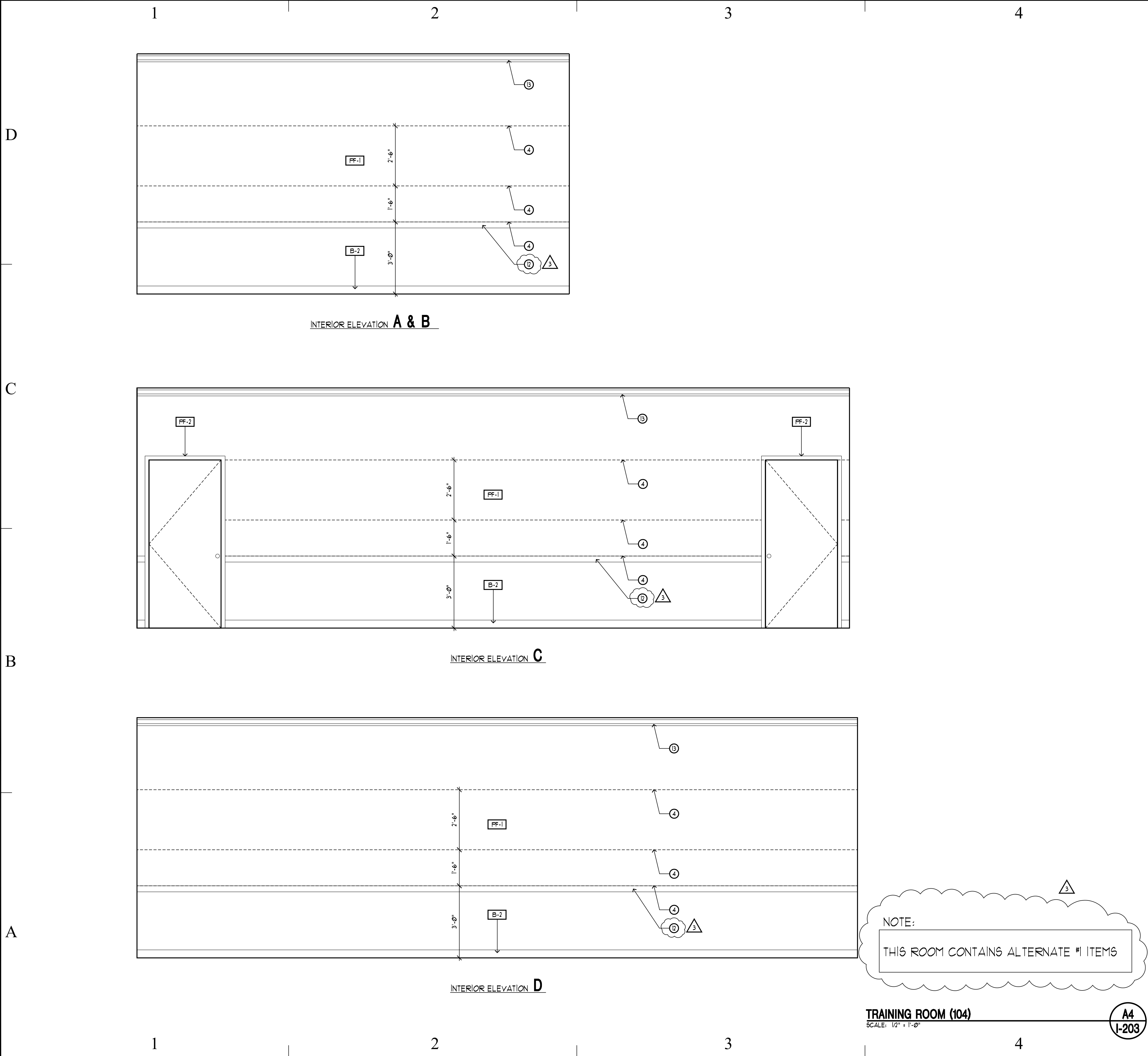
1.

SEE SHEET 1200 FOR FINISH SCHEDULE AND DETAIL OF FINISHES TAGGED ON THIS SHEET.

2.

FOR PLUMBING FIXTURE MOUNTING HEIGHTS - SEE DETAIL A3/A505.

D	<div><div>jsa</div><div>architecture planning interiors</div></div> <div>3115 e. lion lane suite 300 salt lake city utah 84121 801. 278. 8151 fax 801. 278. 8661</div>		
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	CONSULTANTS:		
C	BUILDING NAME:		
	UTAH NATIONAL GUARD JLTC		
	PROJECT TITLE:		
	BUILDING #2		
	CAMP WILLIAMS DRAPER, UT		
B	MARK	DATE	DESCRIPTION
	1	5/17/05	ADDENDA #1
	2	5/19/05	ADDENDA #2
	3	6/3/05	ADDENDA #3
	ISSUE TYPE: STATE REVIEW SET		
	ISSUE DATE: APRIL 21, 2005		
	DFCM PROJECT NO: 05006480		
	CAD PROJECT NO: 0516		
	CAD DWG FILE:		
	DRAWN BY: CDJ		
	CHK'D BY: XXX		
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	SHEET TITLE		
	INTERIOR ELEVATIONS		
A	SHEET NUMBER		
	I-2 02		
SHEET 032 OF 055			



5

LEGEND- INTERIOR ELEVATIONS

XX ——— INTERIOR FINISH
SEE FINISH LEGENDS

① ——— KEY REFERENCE NOTES

REVISION CLOUD

KEYNOTES

① JANITOR'S HOOK AND SHELF - SEE RESTROOMS ACCESSORIE SCHEDULE ON SHEET I200.

② MOP SINK, SEE MECHANICAL FOR TYPE.

③ DRINKING FOUNTAINS - SEE MECHANICAL FOR TYPE.

④ BLOCKING AS PART OF METAL STUD WALL - SEE DETAIL A3/A501. USE TYPE #3.

⑤ 3/4" GYP. BD. SOFFIT - SEE DETAIL NOTED.

⑥ NO BASE BEHIND AREAS DESIGNATED FOR LOCKERS.

⑦ BENCH SHOWN ARE OWNER PROVIDE AND OWNER INSTALLED.

⑧ TOILET PARTITION - SEE SPECIFICATIONS SECTION 10155.

⑨ ROD & CURTAIN PROVIDED BY OWNER AND INSTALLED BY OWNER.

⑩ PRE-FABRICATED SOWER STALL - SEE PLUMBING FOR TYPE.

⑪ COORDINATE OUTLET HEIGHT FOR MICROWAVE.

⑫ ALTERNATE #3 - CHAIR RAIL MOLDING, STAINED - SEE DETAIL A2/A502.

⑬ ALTERNATE #3 - CORNICE MOLDING, STAINED - SEE DETAIL D5/A502.

GENERAL NOTES

1. SEE SHEET I200 FOR FINISH SCHEDULE AND DETAIL OF FINISHES TAGGED ON THIS SHEET.

2. FOR PLUMBING FIXTURE MOUNTING HEIGHTS - SEE DETAIL A3/A505.

5-12-05

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UTAH NATIONAL
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JLTC

PROJECT TITLE:

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CAMP WILLIAMS
DRAPER, UT

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△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

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DCFM PROJECT NO: 05006480

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CAD DWG FILE:

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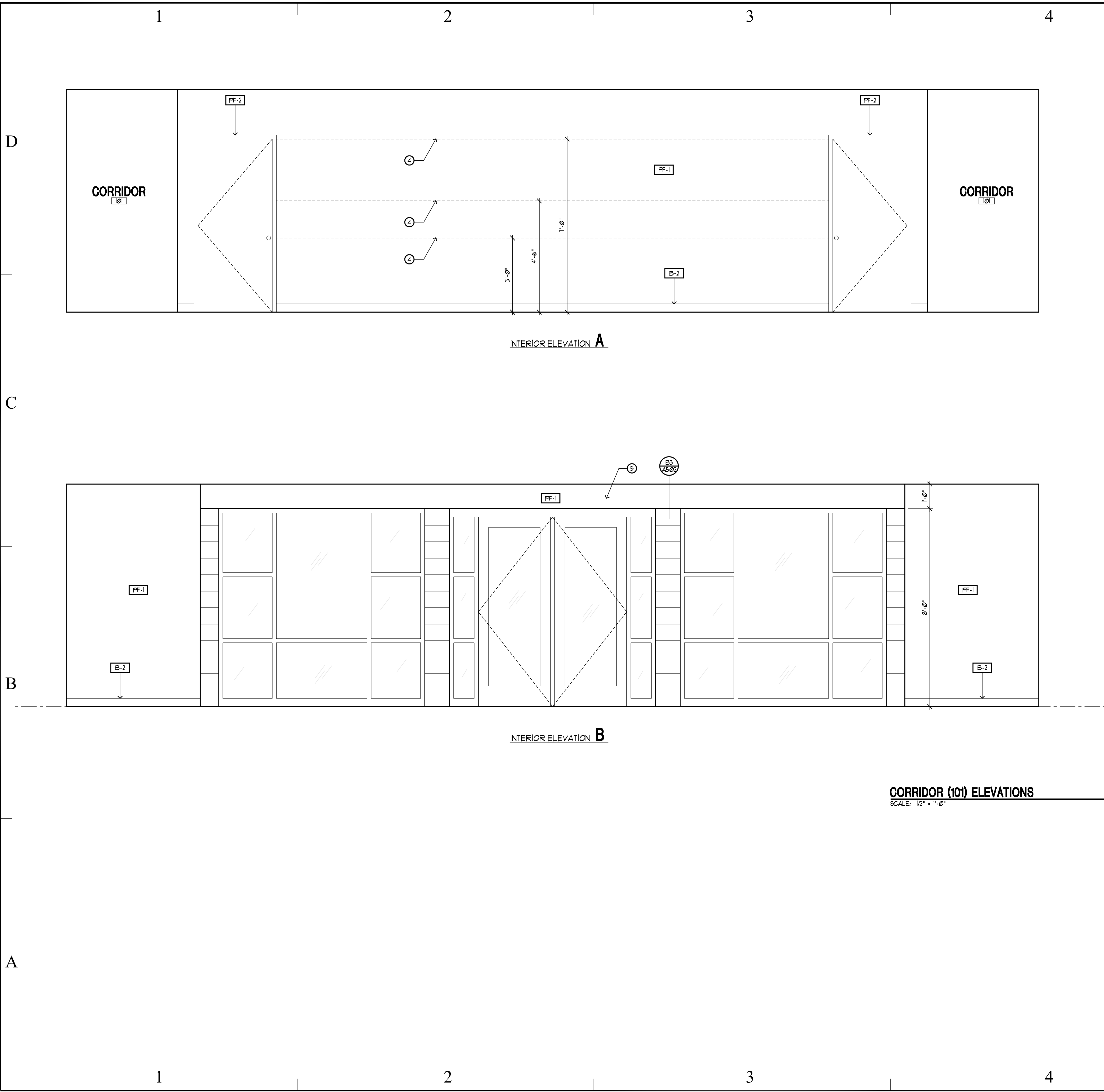
SHEET TITLE

INTERIOR
ELEVATIONS

SHEET NUMBER

I-2 03

SHEET 033 OF 055



LEGEND- INTERIOR ELEVATIONS

XX

INTERIOR FINISH
SEE FINISH LEGENDS

○

KEY REFERENCE NOTES

☁

REVISION CLOUD

KEYNOTES

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MOP SINK, SEE MECHANICAL FOR TYPE.

③

DRINKING FOUNTAINS - SEE MECHANICAL FOR TYPE.

④

BLOCKING AS PART OF METAL STUD WALL - SEE DETAIL A3/A501, USE TYPE "3".

⑤

8" GYP. BD. SOFFIT - SEE DETAIL NOTED.

⑥

NO BASE BEHIND AREAS DESIGNATED FOR LOCKERS.

⑦

BENCH SHOWN ARE OWNER PROVIDE AND OWNER INSTALLED

⑧

TOILET PARTITION - SEE SPECIFICATIONS SECTION 10155.

⑨

ROD + CURTAIN PROVIDED BY OWNER AND INSTALLED BY OWNER.

⑩

PRE-FABRICATED SOWER STALL - SEE PLUMBING FOR TYPE.

⑪

COORDINATE OUTLET HEIGHT FOR MICROWAVE.

⑫

ALTERNATE "3" - CHAIR RAIL MOLDING, STAINED - SEE DETAIL A2/A502.

⑬

ALTERNATE "3" - CORNICE MOLDING, STAINED - SEE DETAIL D5/A502.

GENERAL NOTES

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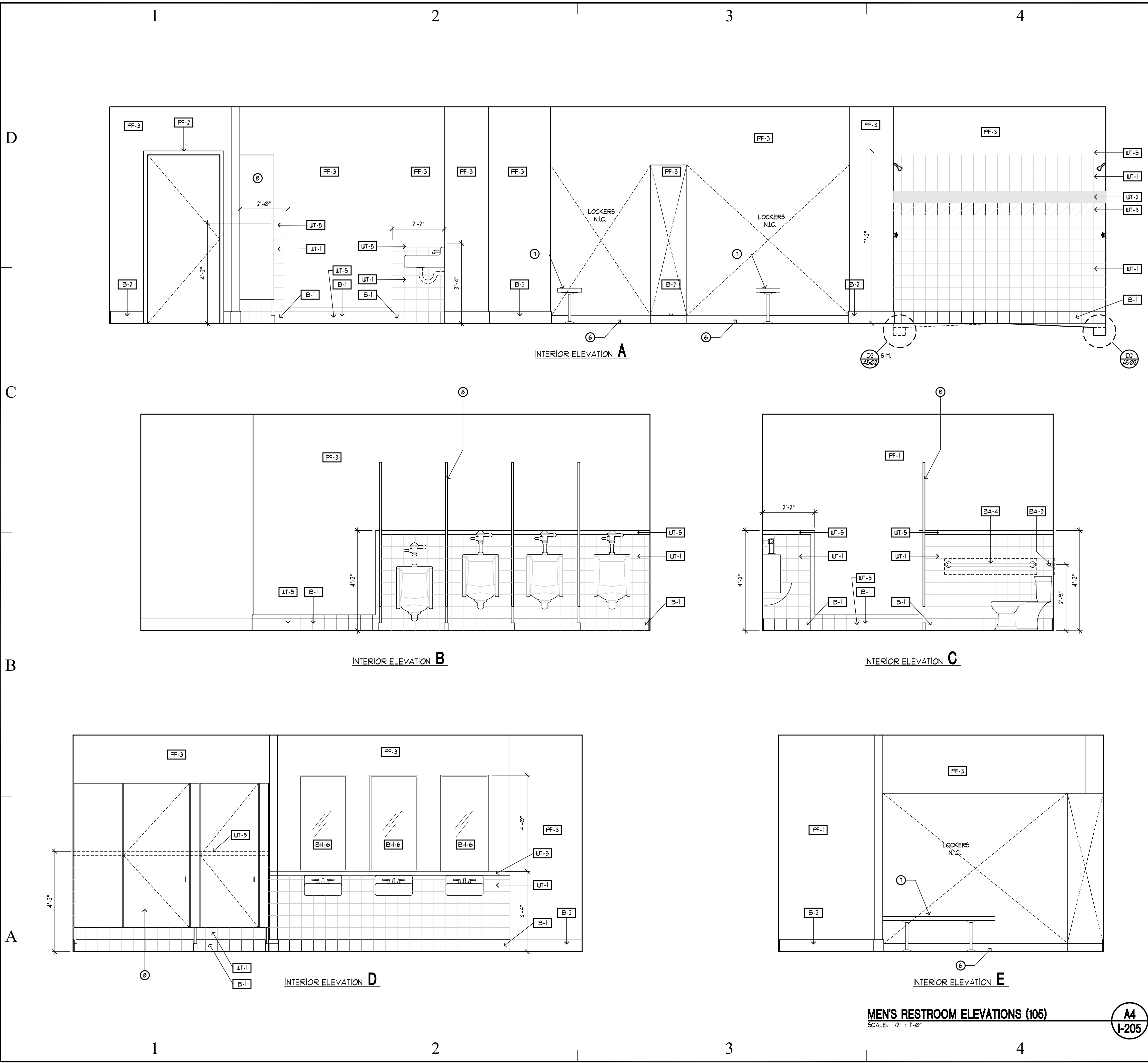
SHEET TITLE

INTERIOR
ELEVATIONS

SHEET NUMBER

I-2 04

SHEET 034 OF 055



LEGEND- INTERIOR ELEVATIONS

XX

INTERIOR FINISH
SEE FINISH LEGENDS

○

KEY REFERENCE NOTES

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REVISION CLOUD

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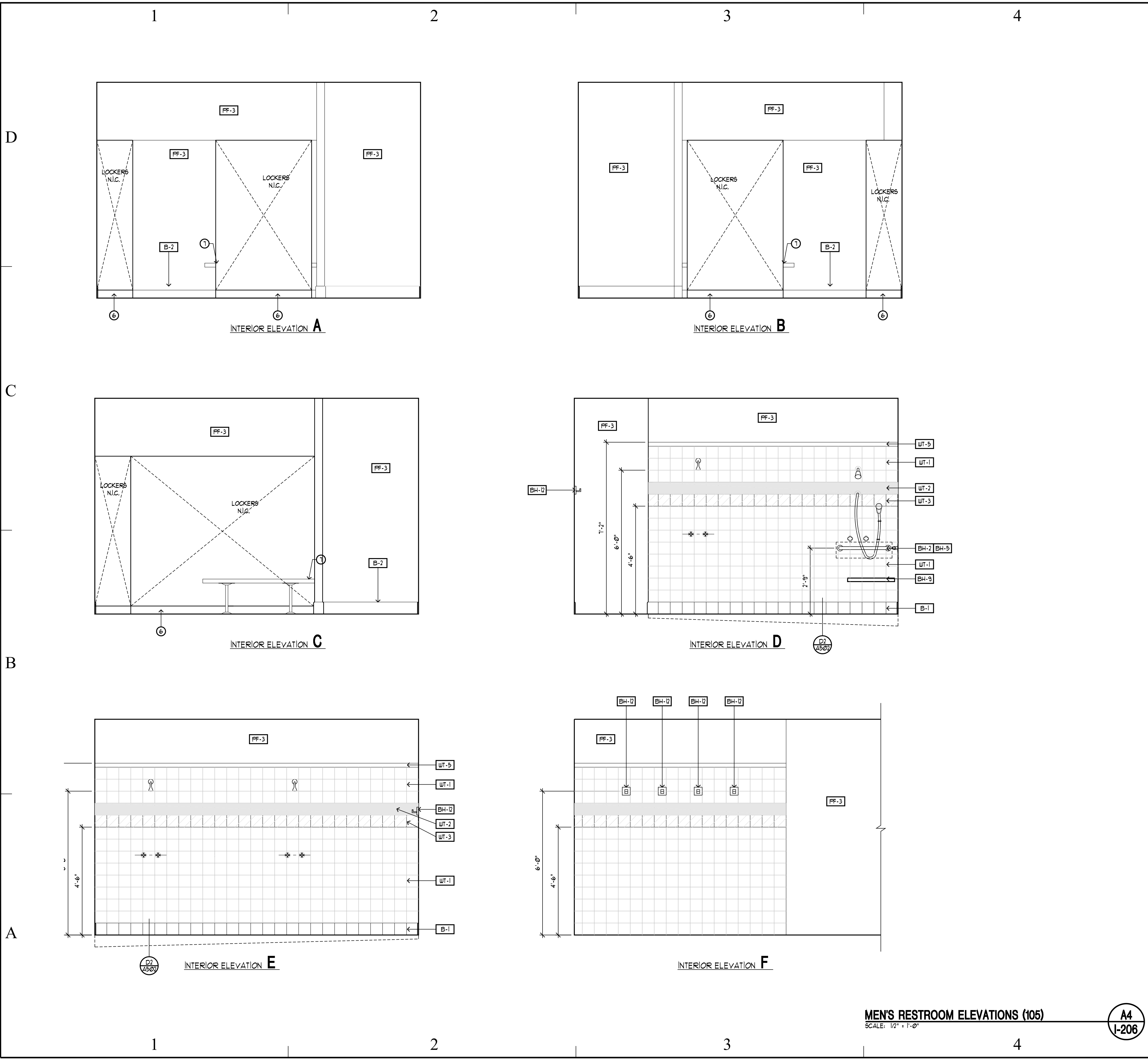
SHEET TITLE

INTERIOR
ELEVATIONS

SHEET NUMBER

I-2 05

SHEET 035 OF 055



LEGEND- INTERIOR ELEVATIONS

XX

INTERIOR FINISH
SEE FINISH LEGENDS

○

KEY REFERENCE NOTES

☁

REVISION CLOUD

KEYNOTES

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ALTERNATE "3" - CORNICE MOLDING, STAINED - SEE DETAIL D5/A502.

GENERAL NOTES

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SHEET TITLE

INTERIOR
ELEVATIONS

SHEET NUMBER

I-2 06

SHEET 036 OF 055

PIPING LEGEND			
GATE VALVE		CHILLED WATER SUPPLY	— CHS —
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	— CHR —
BALL VALVE		CONDENSER WATER SUPPLY	— CWS —
BUTTERFLY VALVE		CONDENSER WATER RETURN	— CWR —
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	— HWS —
HEAT TRACING		HEATING WATER RETURN	— HWR —
DE-IONIZED WATER	— DI —	WATER TREATMENT	— WT —
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	— HG —
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	— RL —	PIPE CAP	
REFRIGERANT SUCTION	— RS —	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	— — — —
CIRCUIT SETTER		DOMESTIC HOT WATER	— — — —
FLOW METER		HOT WATER CIRC.	— — — —
PET COCK OR GAUGE COCK		TEMPERED WATER	— T —
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	— — — —
THERMOMETER		SANITARY SEWER ABOVE GRADE	— — — —
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	— — — —
IN-LINE PUMP		DRAIN	— D —
FLOW SWITCH		ROOF DRAIN PIPING	— RD —
AQUASTAT		OVERFLOW DRAIN PIPING	— OD —
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	— SD —
VACUUM	— V —	STORM DRAIN PIPING BELOW GRADE	— SD —
FLOOR DRAIN		FIRE SERVICE	— F —
FLOOR SINK		NATURAL GAS	— G —
HOT GAS BYPASS	— HGBP —	COMPRESSED AIR	— CA —
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	— S —
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	— C —

MECHANICAL LEGEND			
RETURN OR EXHAUST DUCT DOWN		RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN		SUPPLY AIR DUCT UP	
SPIN-IN FITTING W/MVD		FLEXIBLE DUCT	
CEILING SLOT DIFFUSER		CEILING DIFFUSER	
CEILING EXHAUST GRILLE		CEILING GRILLE	
ACCESS PANEL		MANUAL VOLUME DAMPER	
MOTORIZED DAMPER		FIRE DAMPER	
COMBINATION FIRE/SMOKE DAMPER		THERMOSTAT OR TEMP SENSOR	
POINT OF CONNECTION TO EXISTING		DETAIL NO. DRAWING NO.	
KEYED NOTE		NOTE NO.	
SECTION CUT LINE		SECTION NO. DRAWING NO.	
CONTROL TRANSFORMER			
LOW PRESSURE DUCT W/ TURNING VANES			
BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED			

GENERAL NOTES

- INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
- (E) INDICATES EXISTING. (N) INDICATES NEW MATERIAL.
- COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- THIS CONTRACTOR SHALL NOT SHUT-OFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
- ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2.0 LBS./CU.FT. FIBERGLASS DUCT WRAP. ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LBS./CU.FT. DUCT LINER, TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRECHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
- DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
- THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS "A". ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS "B".
- ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 2003 INTERNATIONAL BUILDING CODE, 2003 INTERNATIONAL FIRE CODE, 2003 INTERNATIONAL MECHANICAL CODE AND 2003 INTERNATIONAL PLUMBING CODE.
- THIS CONTRACTOR SHALL PROVIDE SUBMITALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
- ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER AND O&M.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

INTAKE HOOD SCHEDULE IH-1					
PLAN CODE	AREA SERVED	MANUFACTURER & MODEL NO.	CFM	OPENING SIZE	ACCESSORIES
IH-1	MECHANICAL ROOM	PENN #WCC10		11"ø	PROVIDE FACTORY CURB

AIR DIFFUSER AND GRILLE SCHEDULE GRILLE									
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX.	MAX. CFM	DAMPER	COLOR	COMMENTS
S-1	AIR DIFFUSION PRODUCTS #DNR-3	RADIAL SUPPLY	14"	SEE PLANS	25	540	IN DUCT	WHITE	24 X 24 MODULE
S-2	PRICE PDMC	2-WAY SUPPLY	-	SEE PLANS	27	535	IN DUCT	WHITE	24 X 24 MODULE
S-3	PRICE PDMC	2-WAY SUPPLY	10"	SEE PLANS	24	273	IN DUCT	WHITE	PERFORATED FACE 24 X 24 MODULE
S-4	PRICE PDMC	4-WAY SUPPLY	10"	SEE PLANS	25	118	IN DUCT	WHITE	12 X 12 MODULE PERFORATED FACE
S-5	AIR DIFFUSION PRODUCTS #DNR-3	RADIAL SUPPLY	10"	SEE PLANS	27	330	IN DUCT	WHITE	24 X 24 MODULE
S-6	PRICE PDMC	4-WAY SUPPLY	10"	SEE PLANS	24	273	IN DUCT	WHITE	16" X 16" MODULE
S-7	CARNES #RSD8	SUPPLY GRILLE	6"x16"	-	24	400	IN DUCT	WHITE	SET FRONT BLADE AT 45° DOWN. MOUNT HIGH ON WALL.
R-1	PRICE #PDDR	PERFORATED RETURN	22"x22"	SEE PLANS	26	2353	-	WHITE	24 X 24 MODULE
R-2	PRICE #PDDR	PERFORATED EXHAUST	12"ø	SEE PLANS	-	545	IN DUCT	WHITE	20 X 20 MODULE

ELECTRIC WALL HEATER SCHEDULE EH-									
PLAN CODE	TYPE	TOTAL KW	NO. OF STEPS	VOLTAGE & PHASE	FAN H.P.	CFM (ALT.)	MOUNTING	EAT (°F)	MANUFACTURER & MODEL NO.
EH-1		1.8	1	120/1	-		RECESSED WALL		QMARK #QWH1201DS

ROOFTOP UNIT RTU-																									
PLAN CODE	MANUFACTURER/MODEL	CFM @ ELEV.	ESP (IN. WC @ S.L.)	S.F. H.P.	COOLING				HEATING CAPACITY			COMPRESSORS			CONDENSER FAN MOTOR		POWER SUPPLY		WEIGHT (LBS.)	SIZE (IN.)			COMMENTS		
					TOTAL MBH	SENS. MBH	EAT °F	AMB °F	INPUT MBH	OUTPUT MBH	STAGES	NO.	FLA	LRA	NO.	HP	VOLTAGE/ PHASE	MCA AMPS		L	W	H			
RTU-1	CARRIER #48TMD012	4400	0.50	2	102	100	80	100	180	115	2	2	16	125	2	1/4	208/3	49.6	1035	87	58	49	<div><div>1</div><div>2</div><div>3</div><div>4</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div>		
RTU-2	CARRIER #48TMD012	4400	0.50	2	102	100	80	100	180	115	2	2	16	125	2	1/4	208/3	49.6	1035	87	58	49	<div><div>1</div><div>2</div><div>3</div><div>4</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div>		
RTU-3	CARRIER #48TMD008	3110	0.50	2	78	76	80	100	180	115	2	2	14	91	2	1/4	208/3	48.4	870	87	58	49	<div><div>1</div><div>2</div><div>3</div><div>4</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div>		
RTU-4	CARRIER #48TMD006	1500	0.50	1.5	50	49	80	100	115	74	1	1	16	114	1	1/4	208/3	26.6	490	74	45	33	<div><div>1</div><div>2</div><div>3</div><div>5</div><div>7</div><div>8</div><div>10</div></div>		

- ① 14" ROOF CURB ② FACTORY INSTALLED DISCONNECT, SINGLE POINT CONNECTION ③ FACTORY INSTALLED GFI OUTLET W/ STEP DOWN TRANSFORMER - 4 OUTLET ④ 2 - STAGE COOLING ⑤ 1 - STAGE COOLING ⑥ HOT GAS BYPASS ⑦ CARBON DIOXIDE DETECTOR INSTALLED ON RETURN AIR ⑧ MODULATING POWER EXHAUST AND ECONOMIZER ⑨ RETURN AIR SMOKE DETECTOR ⑩ 7-DAY PROGRAMMABLE THERMOSTAT

PACKAGED TERMINAL AIR CONDITIONER AC-													
PLAN CODE	COOLING CAPACITY (BTUH)	HEATING CAPACITY (HEAT PUMP CYCLE) (BTUH)	VOLTAGE & PHASE	F.L.A.	CFM (INDOOR)	CFM VENTILATION	CONTROL	DIMENSIONS (IN.)			FAN SPEEDS		MANUFACTURER & MODEL NO.
								L.	H.	D.	AUTO	MAN.	
AC-1	9000	-	115/1	8.8	270	-	THERMOSTAT	32	11	7	3		SANYO #09KLS51
AC-2	32,000	39,000	208/3	15.5 C 18.1 H	830	-	THERMOSTAT	59	14	9	3		SANYO #36KH42

- ① LOW AMBIENT CONTROL ② EQUIPMENT CURB FOR CONDENSER ③ THERMOSTAT ④ CONDENSER ⑤ MANUFACTURER RECOMMENDED REFRIGERANT PIPING ⑥ WHITE LATEX PAINT ON SUCTION LINE INSULATION ⑦ FUSED DISCONNECT ⑧ MAXIMUM FUSE SIZE - 15 AMPS ⑨ MAXIMUM FUSE SIZE - 40 AMPS

ELECTRIC RE-HEAT COIL SCHEDULE EDH-										
PLAN CODE	AREA/UNIT SERVED	CFM @ ELEV.	MBH	F.V. (FPM)	AIR SIDE		ELECTRICAL		COIL FACE DIMENSION (HxW) (IN.)	ROWS/ FINS PER IN.
					EAT/LAT (°F)	AIR P.D. (IN.)	KW	NO. OF STOPS		
EDH-1	OFFICE 102 & 110	400	5.1		55/70		1.5	1	120/1	---
EDH-2	LOBBY 101	800	10.2		55/90		3.0	2	208/1	---

COMPLETE WITH SAFETY FLOW SWITCH, FUSED DISCONNECT, THERMOSTAT

EXHAUST FAN SCHEDULE EF-												
PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR		N.C.	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)
						H.P.	VOLTAGE & PHASE					
EF-1	WOMEN'S RESTROOM	DOM	880	0.25	1075	0.076	120/1	6.2 SONES	BACKDRAFT	RESTROOM LIGHT SWITCH	18 X 18	-
EF-2	MEN'S RESTROOM	DOM	1200	0.25	1075	0.167	120/1	8.2 SONES	BACKDRAFT	RESTROOM LIGHT SWITCH	20 X 20	-
EF-3	MECH. ROOM	DOM	113	0.25	1700	0.050	120/1	4.8 SONES	BACKDRAFT	THERMOSTAT	13 X 13	-

PUMP SCHEDULE P-							
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR		COMMENTS
					H.P.	VOLTAGE & PHASE	
P-1	CONDENSATE	1/2	15	-	93 W	120/1	FULLY AUTOMATIC PROVIDE CHECK VALVE ON OUTLET



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BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
2	5/19/05	ADDENDA #2
3	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

PVE PROJECT NO: 04045.02

DRAWN BY: M.M.

CHK'D BY: A.D.S.

SHEET TITLE

SCHEDULE
SHEET

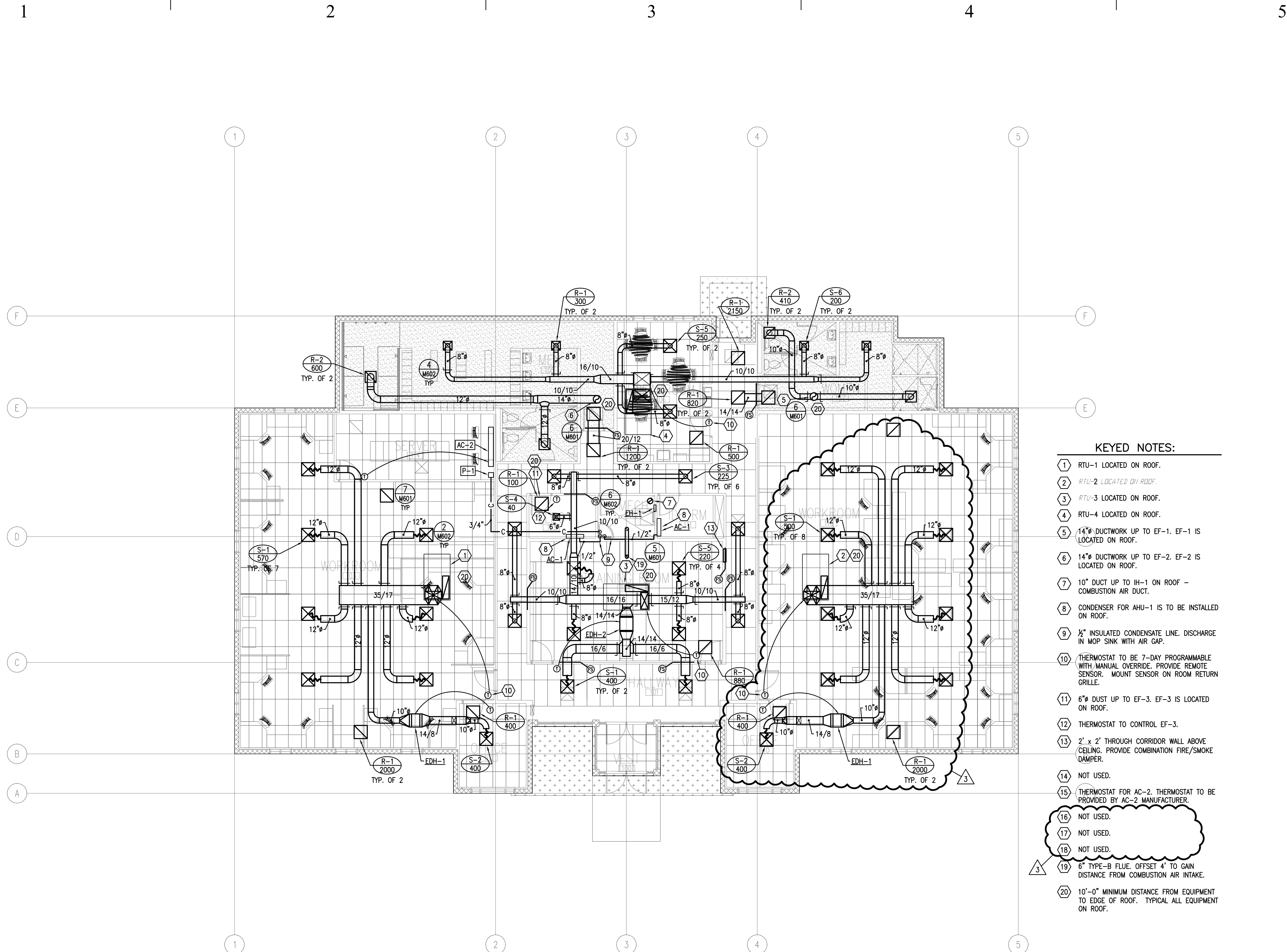
SHEET NUMBER

M001

SHEET 038 OF 053

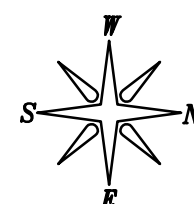
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- KEYED NOTES:**
- 1 RTU-1 LOCATED ON ROOF.
 - 2 RTU-2 LOCATED ON ROOF.
 - 3 RTU-3 LOCATED ON ROOF.
 - 4 RTU-4 LOCATED ON ROOF.
 - 5 14" DUCTWORK UP TO EF-1. EF-1 IS LOCATED ON ROOF.
 - 6 14" DUCTWORK UP TO EF-2. EF-2 IS LOCATED ON ROOF.
 - 7 10" DUCT UP TO IH-1 ON ROOF - COMBUSTION AIR DUCT.
 - 8 CONDENSER FOR AHU-1 IS TO BE INSTALLED ON ROOF.
 - 9 1/2" INSULATED CONDENSATE LINE. DISCHARGE IN MOP SINK WITH AIR GAP.
 - 10 THERMOSTAT TO BE 7-DAY PROGRAMMABLE WITH MANUAL OVERRIDE. PROVIDE REMOTE SENSOR. MOUNT SENSOR ON ROOM RETURN GRILLE.
 - 11 6" DUST UP TO EF-3. EF-3 IS LOCATED ON ROOF.
 - 12 THERMOSTAT TO CONTROL EF-3.
 - 13 2' x 2' THROUGH CORRIDOR WALL ABOVE CEILING. PROVIDE COMBINATION FIRE/SMOKE DAMPER.
 - 14 NOT USED.
 - 15 THERMOSTAT FOR AC-2. THERMOSTAT TO BE PROVIDED BY AC-2 MANUFACTURER.
 - 16 NOT USED.
 - 17 NOT USED.
 - 18 NOT USED.
 - 19 6" TYPE-B FLUE. OFFSET 4' TO GAIN DISTANCE FROM COMBUSTION AIR INTAKE.
 - 20 10'-0" MINIMUM DISTANCE FROM EQUIPMENT TO EDGE OF ROOF. TYPICAL ALL EQUIPMENT ON ROOF.

1 MECHANICAL FLOOR PLAN
M201 SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'



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SHEET TITLE

MECHANICAL
FLOOR PLAN

SHEET NUMBER

M201

SHEET 039 OF 053

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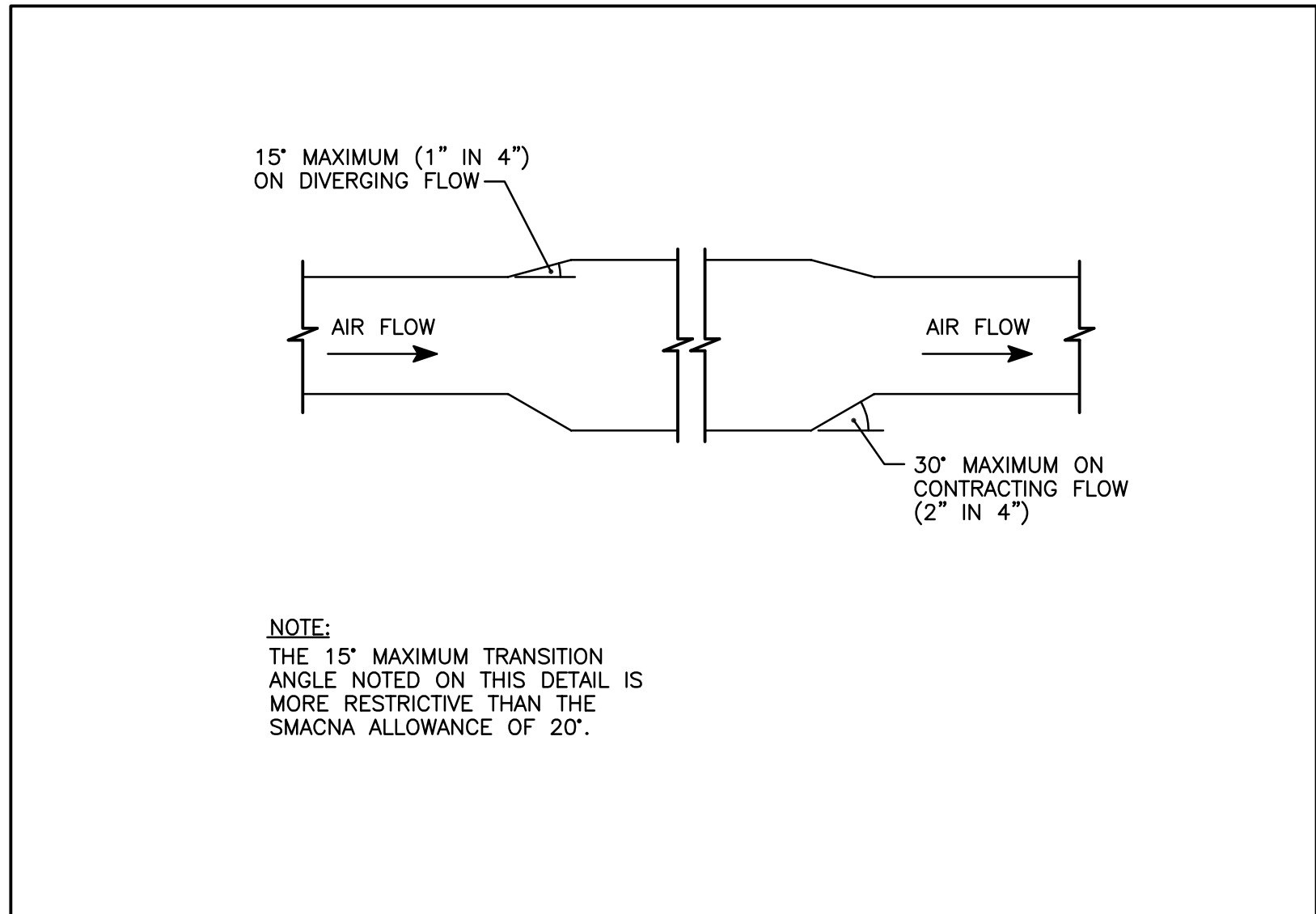
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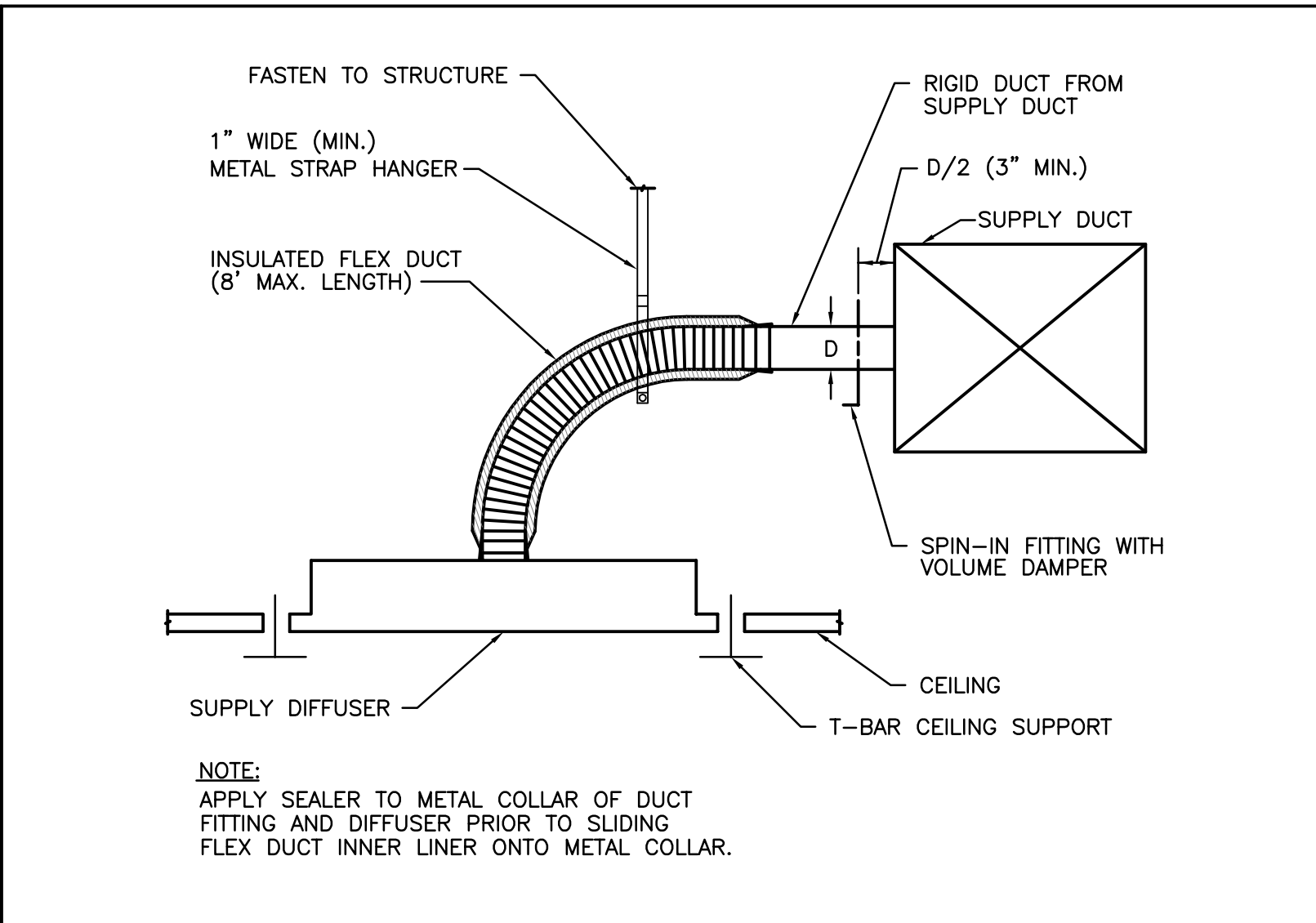
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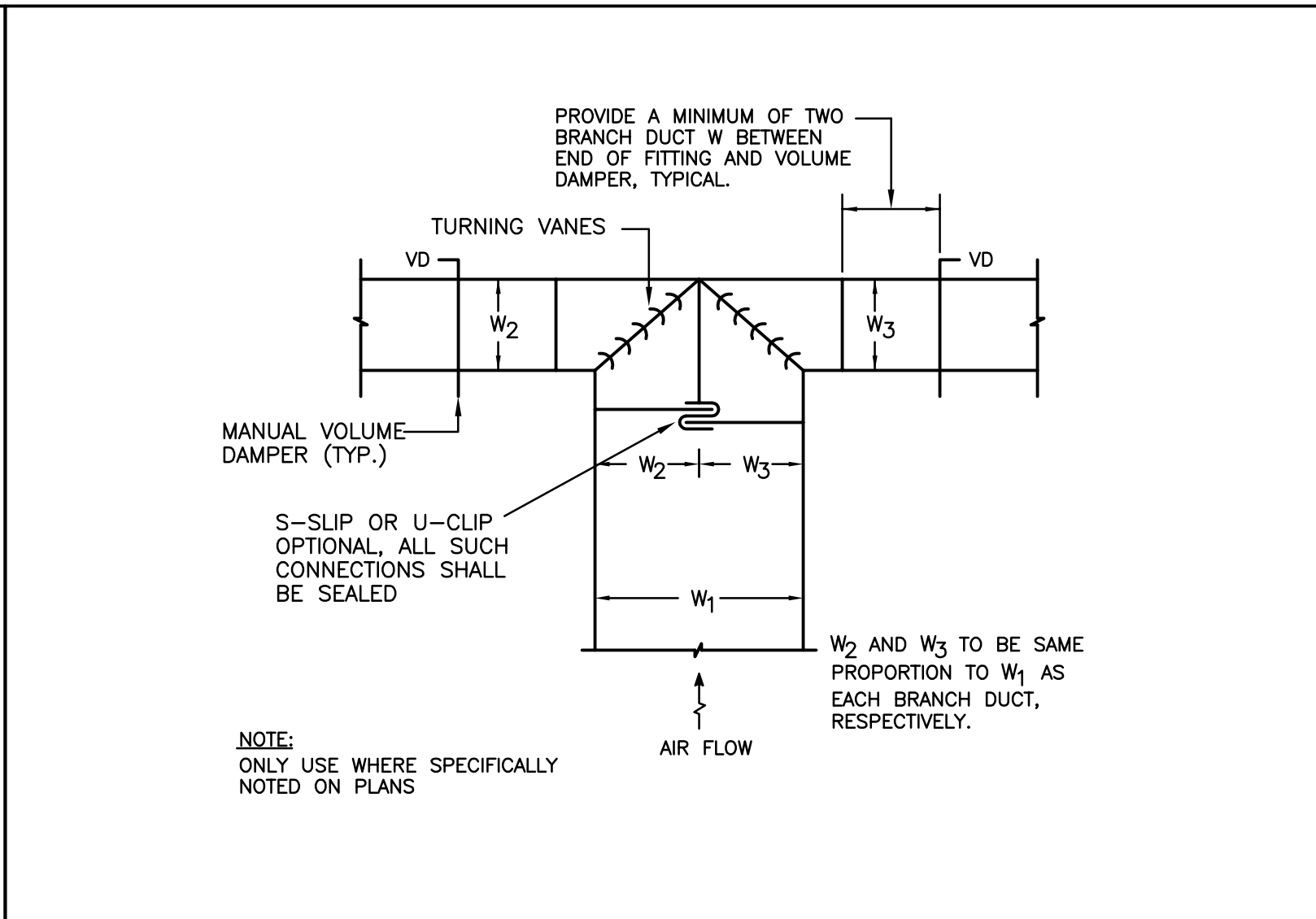
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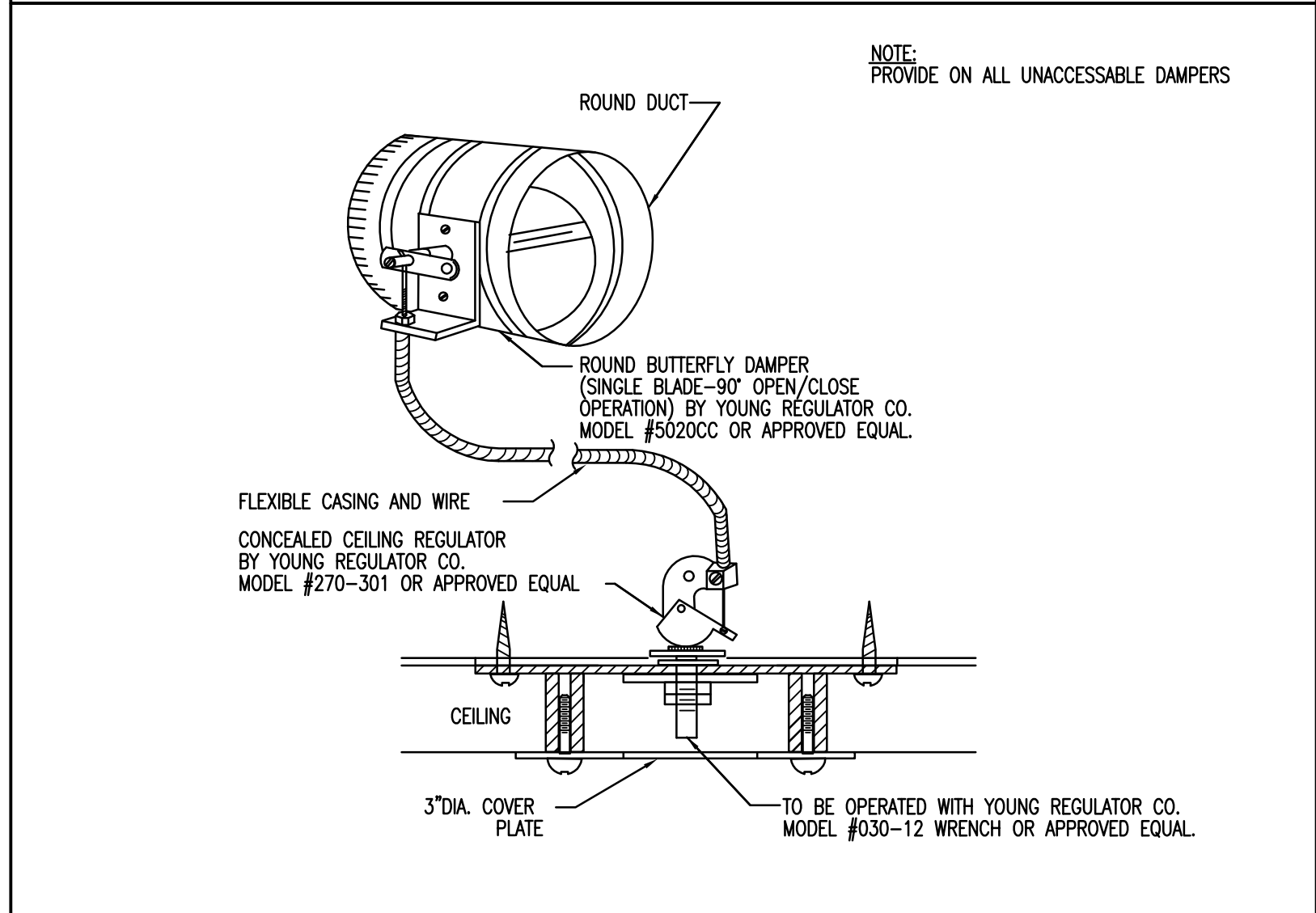
1 CONVERGING AND DIVERGING TRANSITIONS
M602 NO SCALE



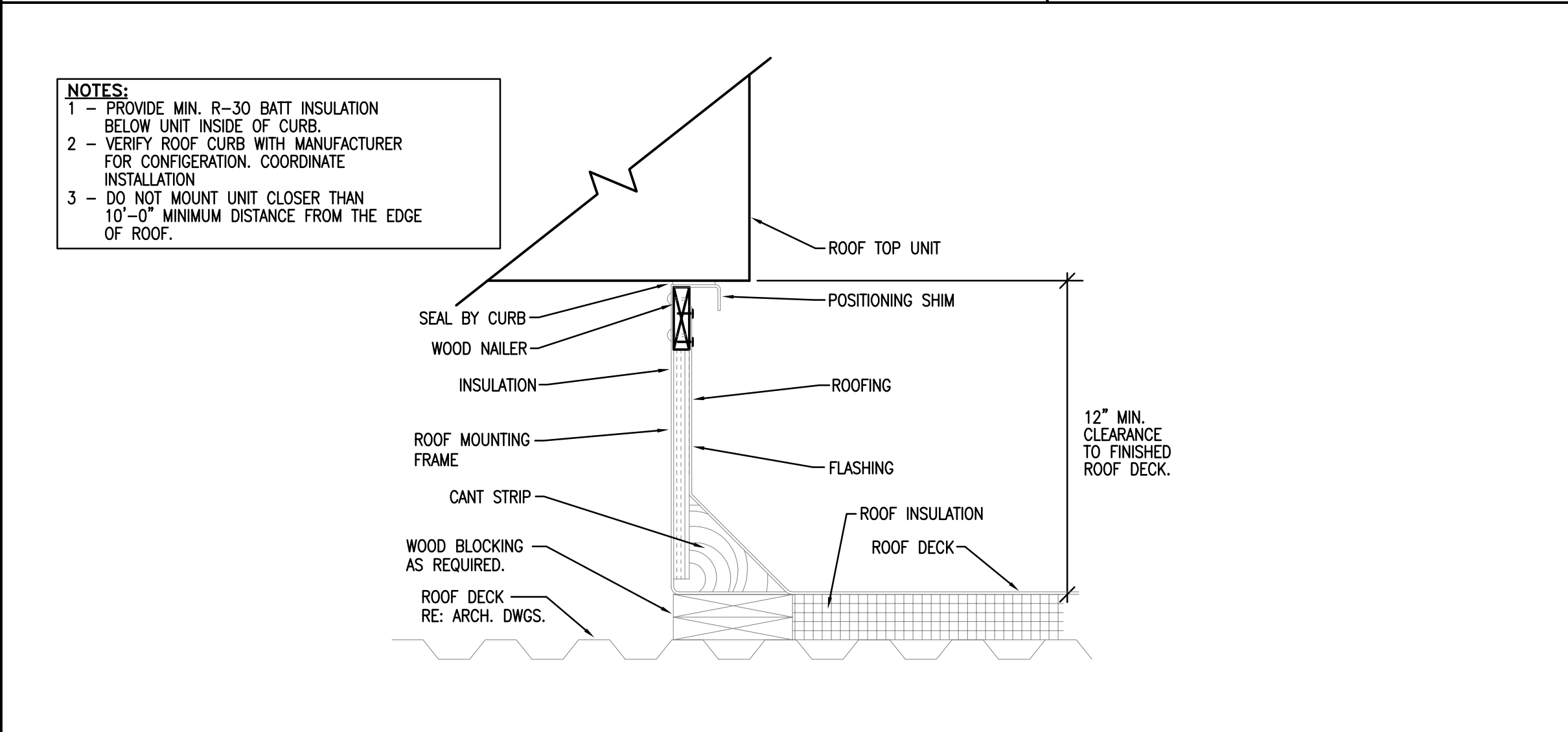
2 TOP INLET AIR DEVICE CONNECTION
M602 NO SCALE



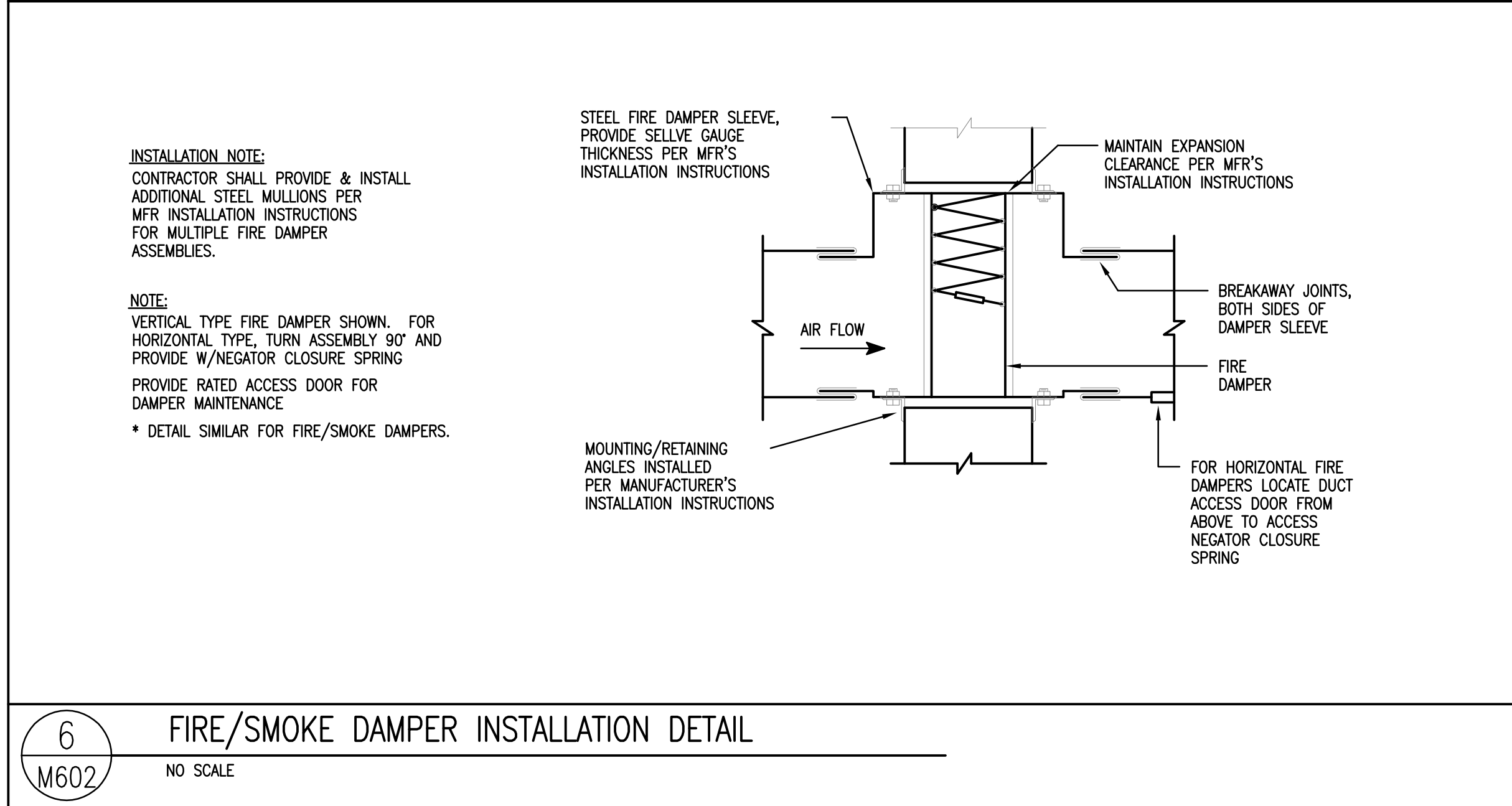
3 DUCTWORK CONVERGING/DIVERGING
M602 NO SCALE



4 DAMPER AND REGULATOR DETAIL
M602 NO SCALE



5 ROOF CURB DETAIL
M602 NO SCALE



6 FIRE/SMOKE DAMPER INSTALLATION DETAIL
M602 NO SCALE

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SHEET TITLE

DETAIL
SHEET

SHEET NUMBER

M602

SHEET 041 OF 053



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A

B

C

D

PIPING LEGEND			
GATE VALVE		CHILLED WATER SUPPLY	— CHS —
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	— CHR —
BALL VALVE		CONDENSER WATER SUPPLY	— CWS —
BUTTERFLY VALVE		CONDENSER WATER RETURN	— CWR —
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	— HWS —
HEAT TRACING		HEATING WATER RETURN	— HWR —
DE-IONIZED WATER	— DI —	WATER TREATMENT	— WT —
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	— HG —
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	— RL —	PIPE CAP	
REFRIGERANT SUCTION	— RS —	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	— — — —
CIRCUIT SETTER		DOMESTIC HOT WATER	— - - - -
FLOW METER		HOT WATER CIRC.	— - - - -
PET COCK OR GAUGE COCK		TEMPERED WATER	— T —
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	— — — —
THERMOMETER		SANITARY SEWER ABOVE GRADE	— — — —
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	— — — —
IN-LINE PUMP		DRAIN	— D —
FLOW SWITCH		ROOF DRAIN PIPING	— RD —
AQUASTAT		OVERFLOW DRAIN PIPING	— OD —
HOSE BIBB OR SILLOCK		STORM DRAIN PIPING ABOVE GRADE	— SD —
VACUUM	— V —	STORM DRAIN PIPING BELOW GRADE	— SD —
FLOOR DRAIN		FIRE SERVICE	— F —
FLOOR SINK		NATURAL GAS	— G —
HOT GAS BYPASS	— HGBP —	COMPRESSED AIR	— CA —
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	— S —
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	— C —

GENERAL NOTES

- ⊙ INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL.
- (E) INDICATES EXISTING. (N) INDICATES NEW MATERIAL.
- COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- THIS CONTRACTOR SHALL NOT SHUT-OFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONAL.
- ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 2.0 LBS/CU.FT. FIBERGLASS DUCT WRAP. ALL RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, TRIM AND SEAL JOINTS W/ MYLAR LINING. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 10 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. MEDIUM PRESSURE FLEXIBLE DUCT TO BE INSULATED, RATED FOR 6" W.C. AND SHALL BE STRETCHED OUT TO PREVENT ANY KINKS OR OFFSETS (3 FT. MAX. LENGTH).
- DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF ALL WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL COST WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING MECHANICAL CONDITIONS.
- THIS CONTRACTOR SHALL USE SMACNA STANDARDS FOR HIGH PRESSURE DUCT CONSTRUCTION OF SUPPLY DUCTWORK UPSTREAM OF VAV BOX - SEAL CLASS "A". ALL OTHER DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - SEAL CLASS "B".
- ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 2003 INTERNATIONAL BUILDING CODE, 2003 INTERNATIONAL FIRE CODE, 2003 INTERNATIONAL MECHANICAL CODE AND 2003 INTERNATIONAL PLUMBING CODE.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION OF THESE SAME ITEMS.
- ALL VAV BOXES AND DIFFUSERS MUST BE BALANCED PER PLAN. PROVIDE BALANCE REPORT TO ENGINEER AND O&M.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

MECHANICAL LEGEND

RETURN OR EXHAUST DUCT DOWN	
RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN	
SUPPLY AIR DUCT UP	
SPIN-IN FITTING W/MVD	
FLEXIBLE DUCT	
CEILING SLOT DIFFUSER	
CEILING DIFFUSER	
CEILING EXHAUST GRILLE	
CEILING GRILLE	
ACCESS PANEL	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	
FIRE DAMPER	
COMBINATION FIRE/SMOKE DAMPER	
THERMOSTAT OR TEMP SENSOR	
POINT OF CONNECTION TO EXISTING	
DETAIL TAG	DETAIL NO.
KEYED NOTE	DRAWING NO.
SECTION CUT LINE	NOTE NO.
	SECTION NO.
	DRAWING NO.
CONTROL TRANSFORMER	
LOW PRESSURE DUCT W/ TURNING VANES	
BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED	

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	DESCRIPTION	CONNECTION SIZE				SPECIFICATIONS
		C.W.	H.W.	WASTE	VENT	
WC-1	WATER CLOSET	1"	---	4"	2"	KOHLER K-4330, "KINGSTON", VITREOUS CHINA, 1½" TOP SPUD. 1.6 GPF. WALL MOUNTED, ELONGATED BOWL W/K-4666-CA ELONGATED OPEN FRONT TOILET SEAT. SLOAN #8110 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE. MOUNT WC AT 15" AFF
WC-2	WATER CLOSET (HANDICAP)	1"	---	4"	2"	KOHLER K-4330, "KINGSTON", ADA COMPLIANT, VITREOUS CHINA, 1½" TOP SPUD. 1.6 GPF. WALL MOUNTED, ELONGATED BOWL W/K-4666-CA ELONGATED OPEN FRONT TOILET SEAT. SLOAN #8110 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE. MOUNT WC AT 18" AFF
U-1	URINAL	3/4"	---	2"	2"	KOHLER K-4972-1, "STANWELL", ADA COMPLIANT, VITREOUS CHINA, 1½" TOP SPUD. 1.0 GPF. WALL MOUNTED, SLOAN #8180 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE. MOUNT URINAL AT 17" AFF
L-1	WALL HUNG LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	KOHLER WHITE K-2005 "KINGSTONE", WALL HUNG VITREOUS CHINA, WITH 4" FAUCET CENTERS, K-7605 ANGLE SUPPLIES WITH STOPS, K-8998 1-½" CAST BRASS P-TRAP, POP-UP DRAIN. FAUCET TO BE MOEN SINGLE-LEVER "VILLETA" #L4701 WITH CHROME GRID DRAIN. PROVIDE MCGUIRE PRO-WRAP INSULATION ON P-TRAP AND SUPPLIES.
S-1	KITCHEN SINK	1/2"	1/2"	2"	2"	"JUST" 18 GA. STAINLESS STEEL SINK. 18"x32" OUTSIDE DIMENSIONS; 7½" DEEP. TYPE 304 STAINLESS, SOUND DEADENED. "JUST" J-901 DECK MOUNTED SINGLE LEVER WASHERLESS MIXING FAUCET WITH ESCUTCHEON AND 8" SPOUT WITH AERATOR. "JUST" J-35-316 STAINLESS STEEL CRUMB CUP STRAINERS WITH REMOVABLE BASKET, FLEXIBLE CHROME PLATED SUPPLIES WITH STOPS, CAST BRASS P-TRAPS WITH CLEANOUT PLUG. DISPOSAL - STAINLESS STEEL INTERNAL CONSTRUCTION, AUTOMATIC REVERSING ACTION, QUICK-LOCK MOUNTING, PERMANENTLY LUBRICATED BEARINGS, DISHWASHER DRAIN CONNECTION, OVERLOAD PROTECTION W/MANUAL RESET. ½ HP
S-2	MOP SINK	1/2"	1/2"	3"	2"	KOHLER #K-6710, 28"x28" ENAMELED CAST IRON FLOOR MOUNTED CORNER MODEL. K-9146-3 3" DRAIN W/STRAINER AND SOCKET, # K-8940 REMOVABLE VINYL COATED GUARD. K-8940 FAUCET W/VACUUM BREAKER, SCREWDRIIVER STOPS IN SHANKS, 5' RUBBER HOSE AND WALL HOOK.
FD-1	FLOOR DRAIN	---	---	SEE PLANS	2"	JOSAM 2" FLOOR DRAIN, #3000-5A, STAINLESS STEEL OR NICKEL BRONZE STRAINER. ADJUSTABLE STRAINER, TRAP PRIMER, PROVIDE PRO-SET TRAP GUARD. PROVIDE SQUARE STRAINER FOR MENS SHOWER ROOM.
RD-1	ROOF DRAIN	---	---	4"	---	JR SMITH #1010 W/FLASING CLAMP, UNDER DECK CLAMP, CAST IRON DOME, INSULATE BOTTOM OF ROOF DRAIN BOWL AND DRAIN PIPE.
OD-1	OVER FLOW ROOF DRAIN	---	---	4"	---	JR SMITH #1080 W/FLASING CLAMP, UNDER DECK CLAMP, CAST IRON DOME, 2½" WATER DAM, INSULATE BOTTOM OF ROOF DRAIN BOWL AND DRAIN PIPE.
DSN-1	OVER FLOW ROOF DRAIN NOZZLE	---	---	4"	---	JR SMITH #1770-PB DOWNSPOUT NOZZLE.
HB-1	HOSE BIBB	1/2"	---	---	---	JRSMITH #5519, COMPLETE WITH STAINLESS STEEL FLUSH MOUNTED BOX, NON-FREEZE VALVE AND VACUUM BREAKER, ¼ TURN HYDRANT.
DF-1	DRINKING FOUNTAIN	1/2"	---	1 1/2"	1 1/2"	HAWS #HWBFABL, HI-LO BARRIER FREE. 7.7 GPH, 115 VOLT, R134A REFRIGERANT, CHROME PLATED BRASS BUBBLE HEAD, SELF-LUBRICATING FAN MOTOR. PUSH DOWN BARS TO ACTIVATE WATER DELIVERY, ADA COMPLIANT. BRUSHED STERLING VINYL FINISH. WATER TEMPERATURE 50°F.
TP-1	TRAP PRIMER	1/2"	---	---	---	MIFAB M-500, PRESSURE DROP ACTIVATED TRAP SEAL PRIMER, W/MIFAB MI-GAP DISTRIBUTION UNIT. PROVIDE ACCESS DOOR TO TRAP PRIMER.
SA-1	SHOCK ABSORBER	1/2"	---	---	---	JOSAM #75000 SERIES, STAINLESS STEEL, SEE PLANS FOR SIZE. PROVIDE ACCESS DOOR. SEE ARCHITECT FOR COLOR OF DOOR.
SH-1	SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-1-X-LR-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH.
SH-2	HANDICAP SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-500-B30-X-LR-V-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH, DIVERTING VALVE, IN-LINE VACUUM BREAKER, HAND SHOWER AND 5' FLEXIBLE METAL HOSE, 30" SLIDER BAR.
SH-3	HANDICAP SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-500-B30-X-LR-V-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH, DIVERTING VALVE, IN-LINE VACUUM BREAKER, HAND SHOWER AND 5' FLEXIBLE METAL HOSE, 30" SLIDER BAR. LASCO #1603-BFSC PREFABRICATED SHOWER STALL COMPLETE WITH SOAP DISH, GRAB BARS, SEAT, SLIP RESISTANT TEXTURED BOTTOM, AND CURTAIN ROD.
SH-4	SHOWER	1/2"	1/2"	1-1/2"	1-1/2"	SYMMONS #BP-56-1-X-LR-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH. LASCO #1603-COS PREFABRICATED SHOWER STALL. COMPLETE WITH SOAP SHELVES, ACRYLIC GRAB BAR, SLIP RESISTANT, TEXTURED BOTTOM.

GAS FIRED WATER HEATER SCHEDULE [WH-]

PLAN CODE	INPUT (BTU/H)	OUTPUT (BTU/H)	EFFICIENCY %	FUEL	CAP. (GAL)	RECOVERY RATE (GPH)	TEMP. RISE (°F)	FLUE DIA.	FLUE TYPE	DIMENSIONS DIAMETER (in.) HEIGHT (in.)	VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	ACCESSORIES/COMMENTS
WH-1	199,999		80	NG	98	194	100	6	TYPE B	30 65		BRADFORD WHITE #D-100L-199-3N	①②③④⑤

① OUTLET THERMOMETER ② PRESSURE TEMPERATURE VALVE ③ SEDIMENT REDUCTION SYSTEM ④ ELECTRONIC IGNITION ⑤ INSTALL PER MANUFACTURER RECOMMENDATIONS

CIRCULATION PUMP SCHEDULE [CP-]

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR		MANUFACTURER & MODEL NO.	COMMENTS
					H.P.	VOLTAGE & PHASE		
CP-1	DOMESTIC HOT WATER CIRCULATION	1	5	3250	1/40	120/1	TACO MODEL 006 PNP	STAINLESS STEEL CARTRIDGE



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BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
△	5/17/05	ADDENDA #1
△	5/19/05	ADDENDA #2
△	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

PVE PROJECT NO: 040405.02

DRAWN BY: M.M.

CHK'D BY: A.D.S.

SHEET TITLE

DETAIL
SHEET

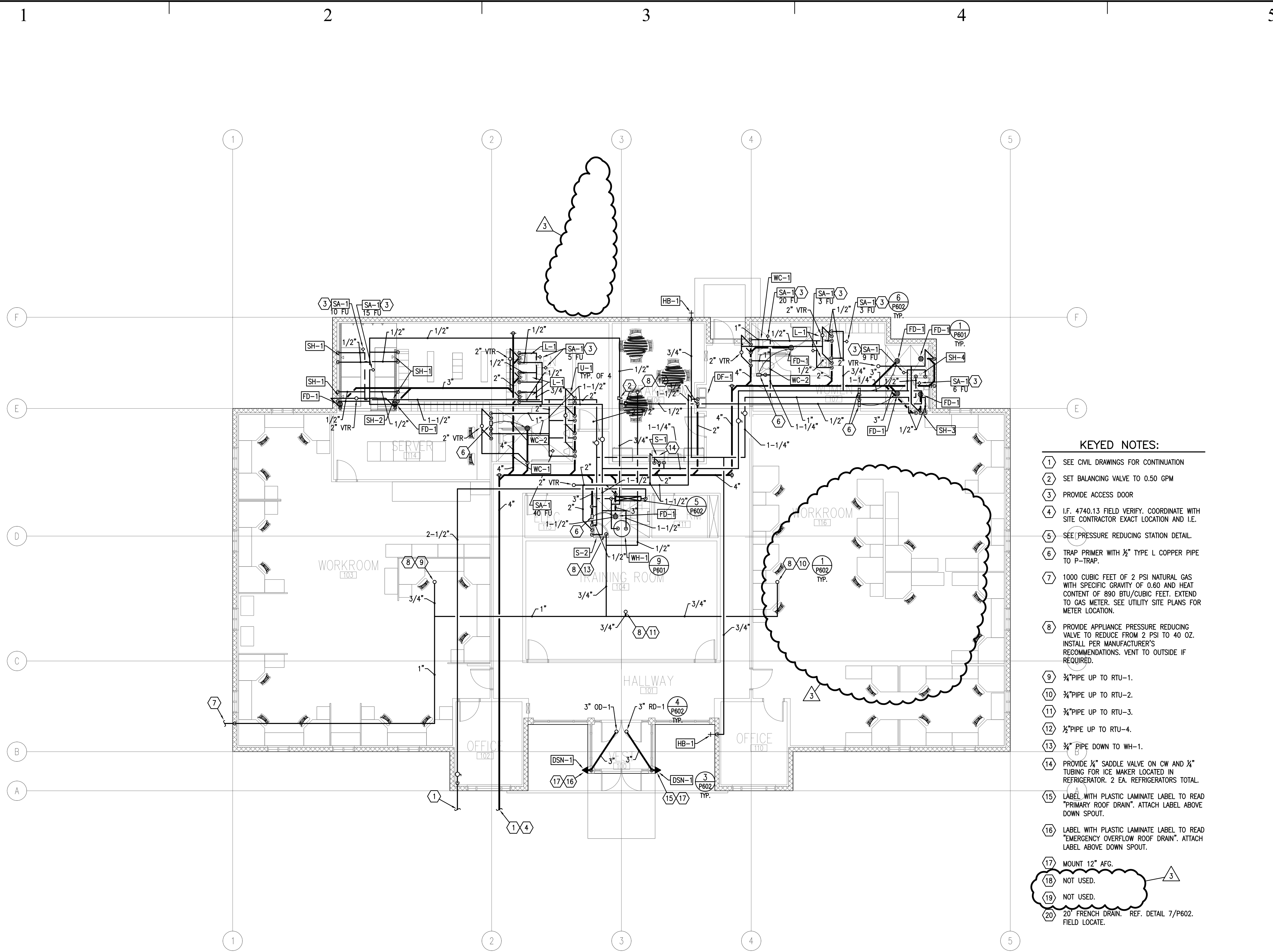
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P001

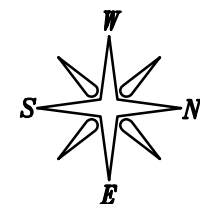
SHEET 042 OF 053

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1 PLUMBING FLOOR PLAN
P201 SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'



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ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

PVE PROJECT NO: 04045.02

DRAWN BY: M.M.

CHK'D BY: A.D.S.

SHEET TITLE

PLUMBING
FLOOR PLAN

SHEET NUMBER

P201

SHEET 043 OF 053

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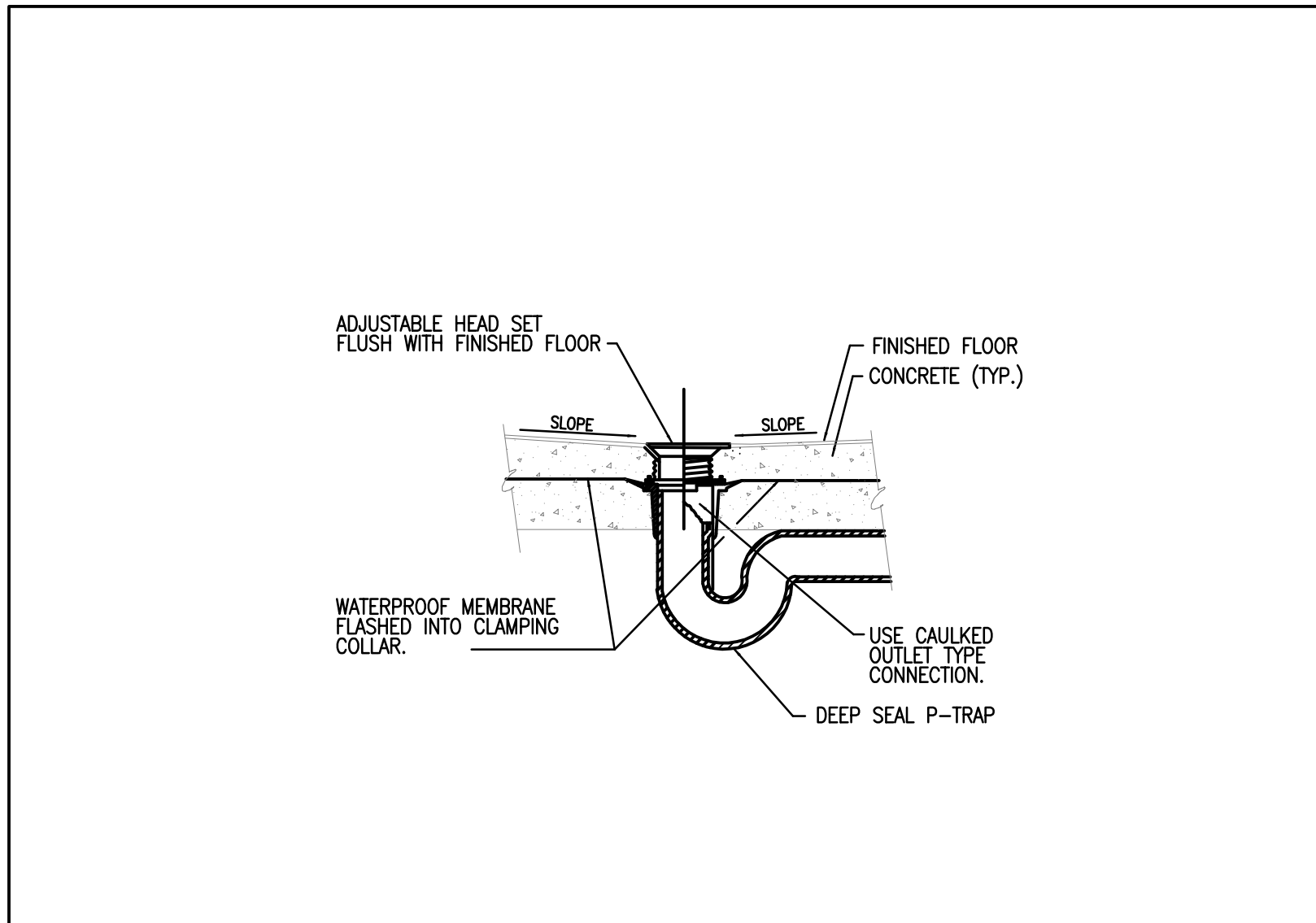
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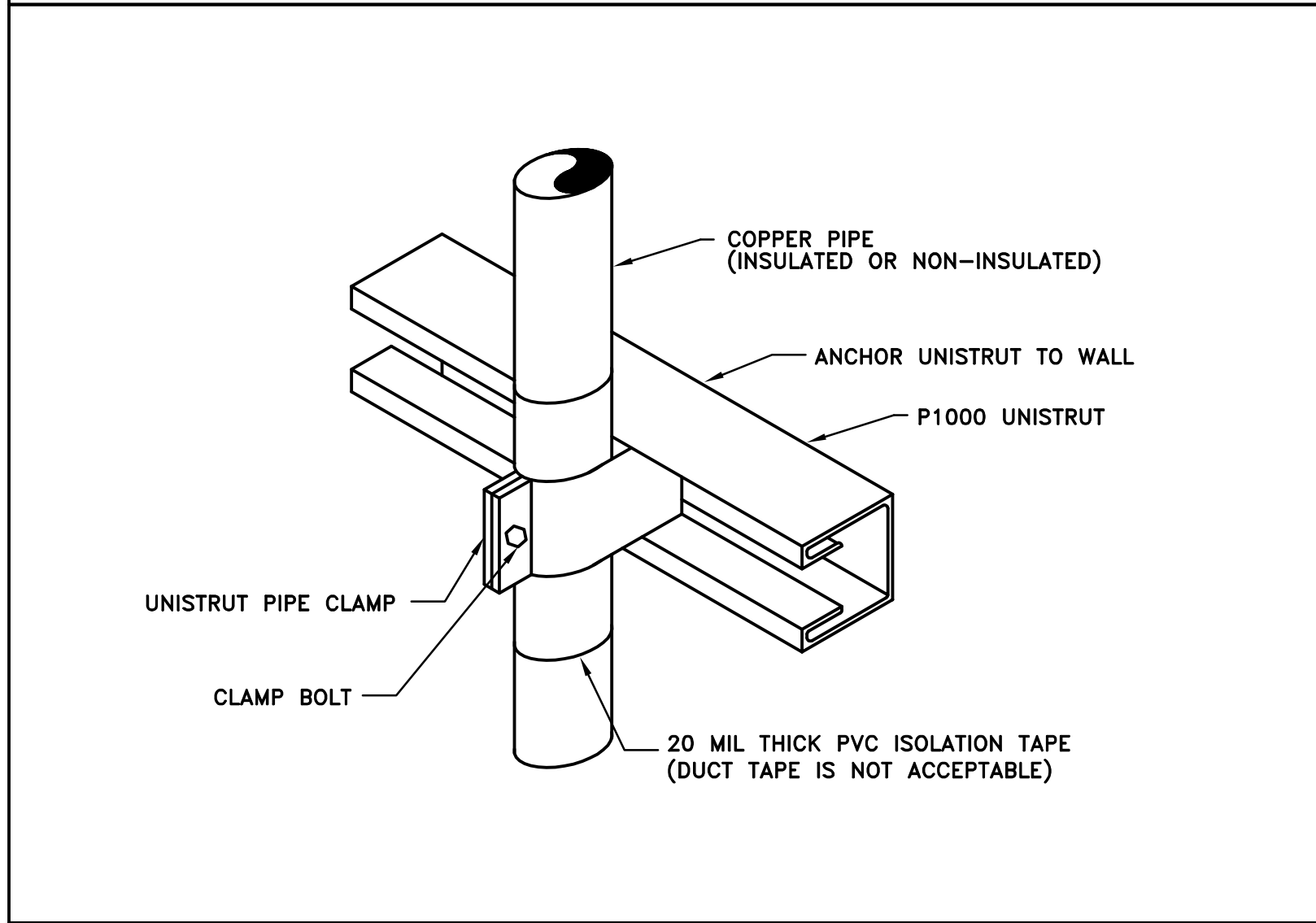
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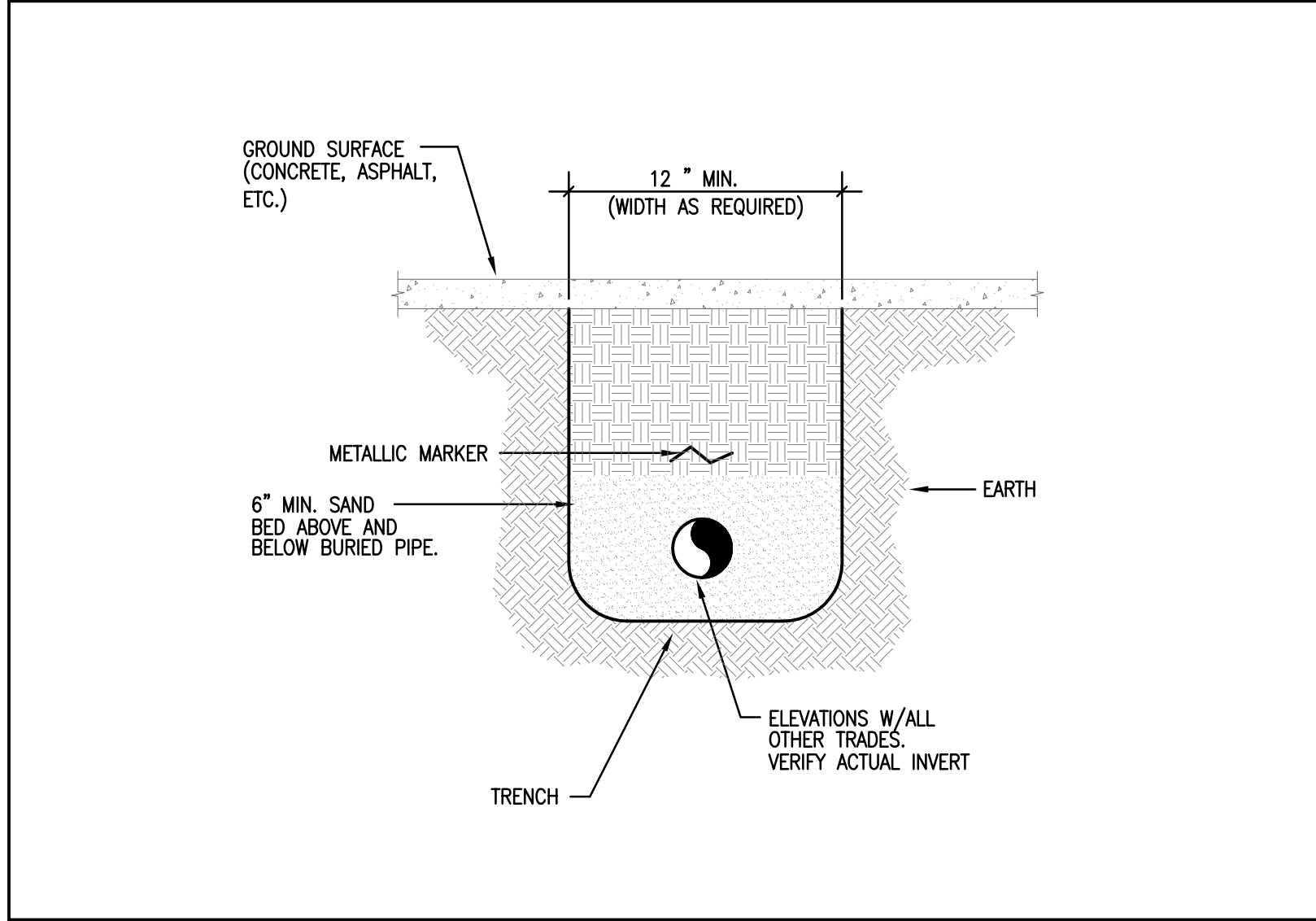
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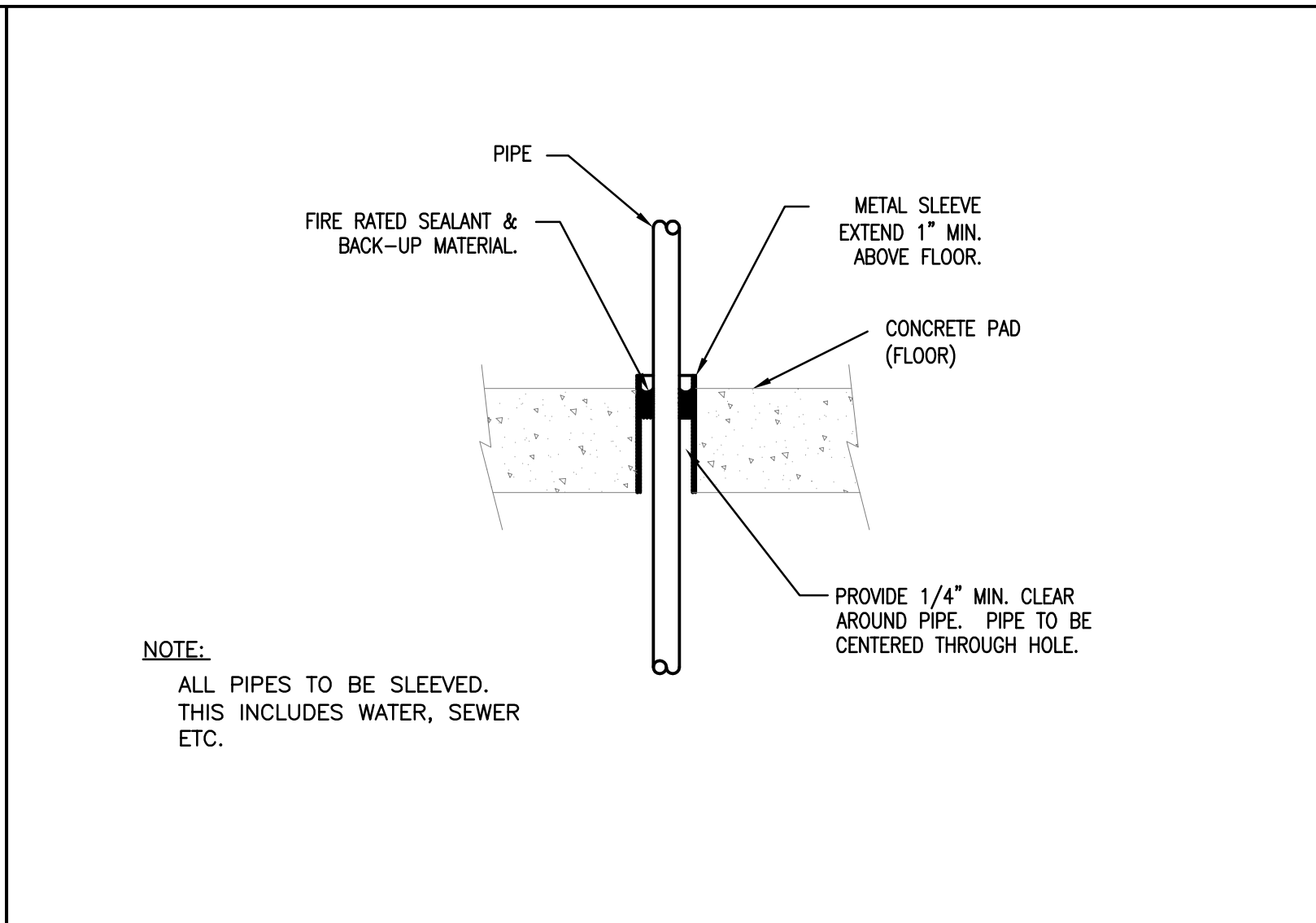
1 FLOOR DRAIN DETAIL
P601 NO SCALE



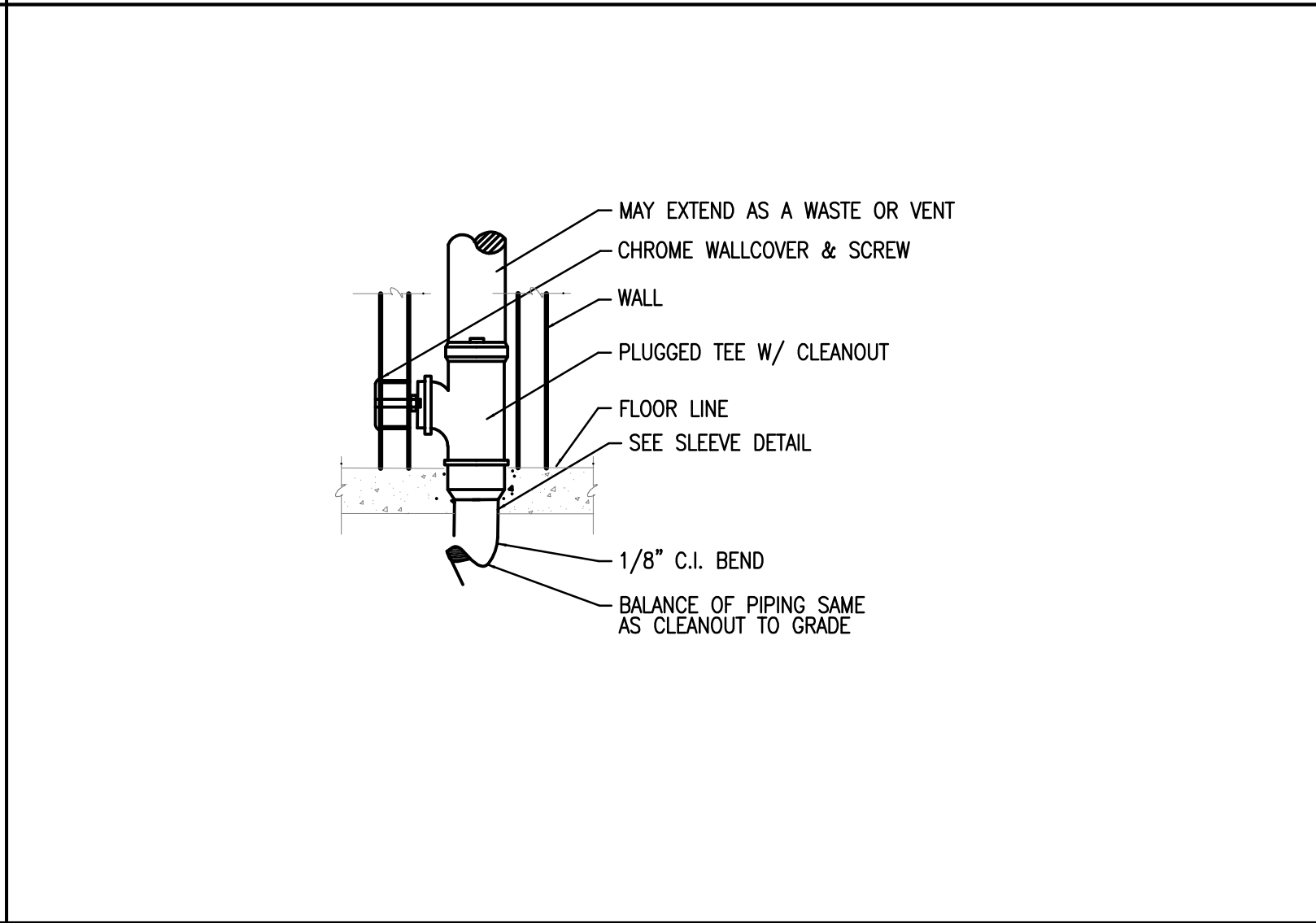
4 PIPE SUPPORT
P601 NO SCALE



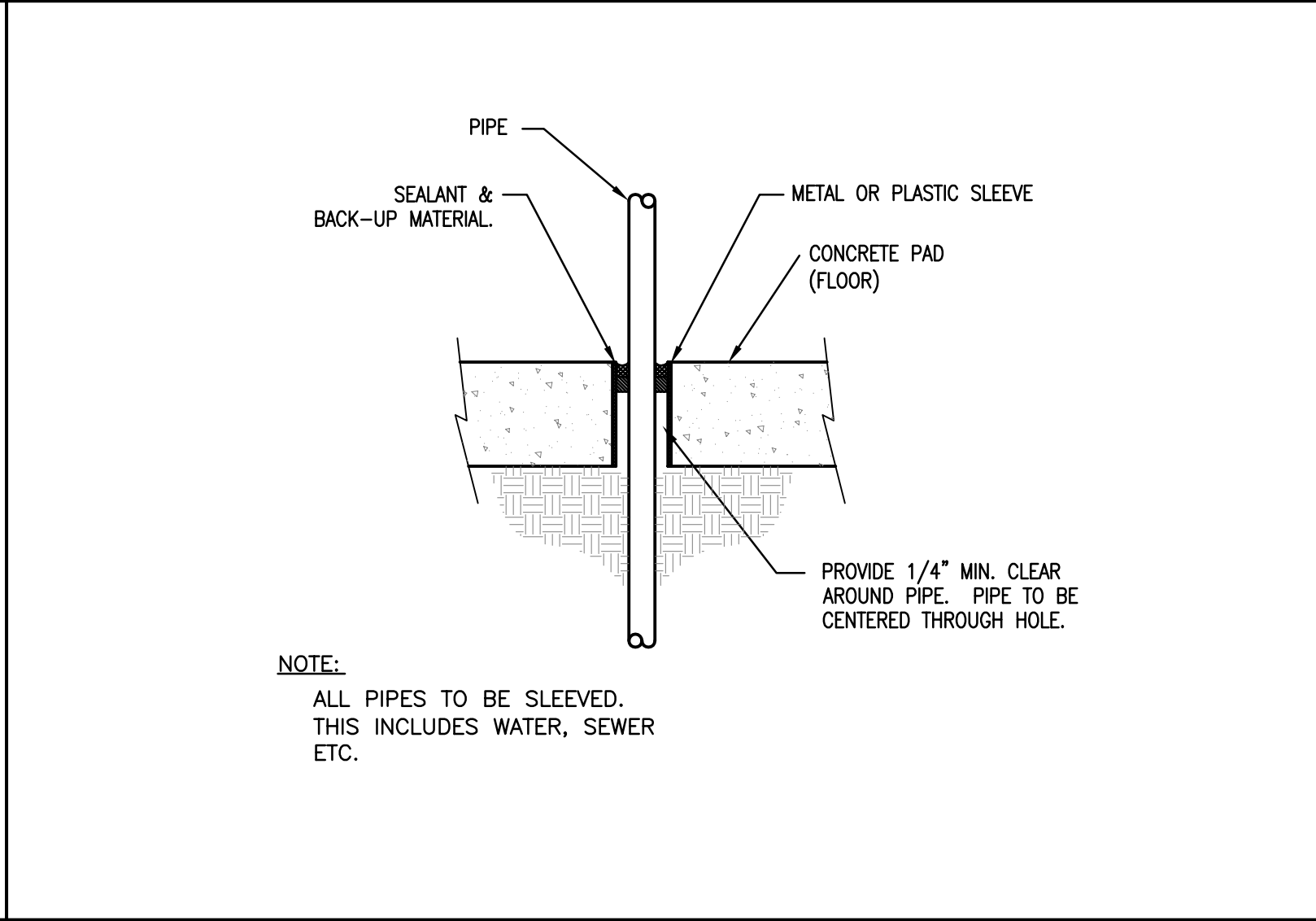
7 BURIED PIPE DETAIL
P601 NO SCALE



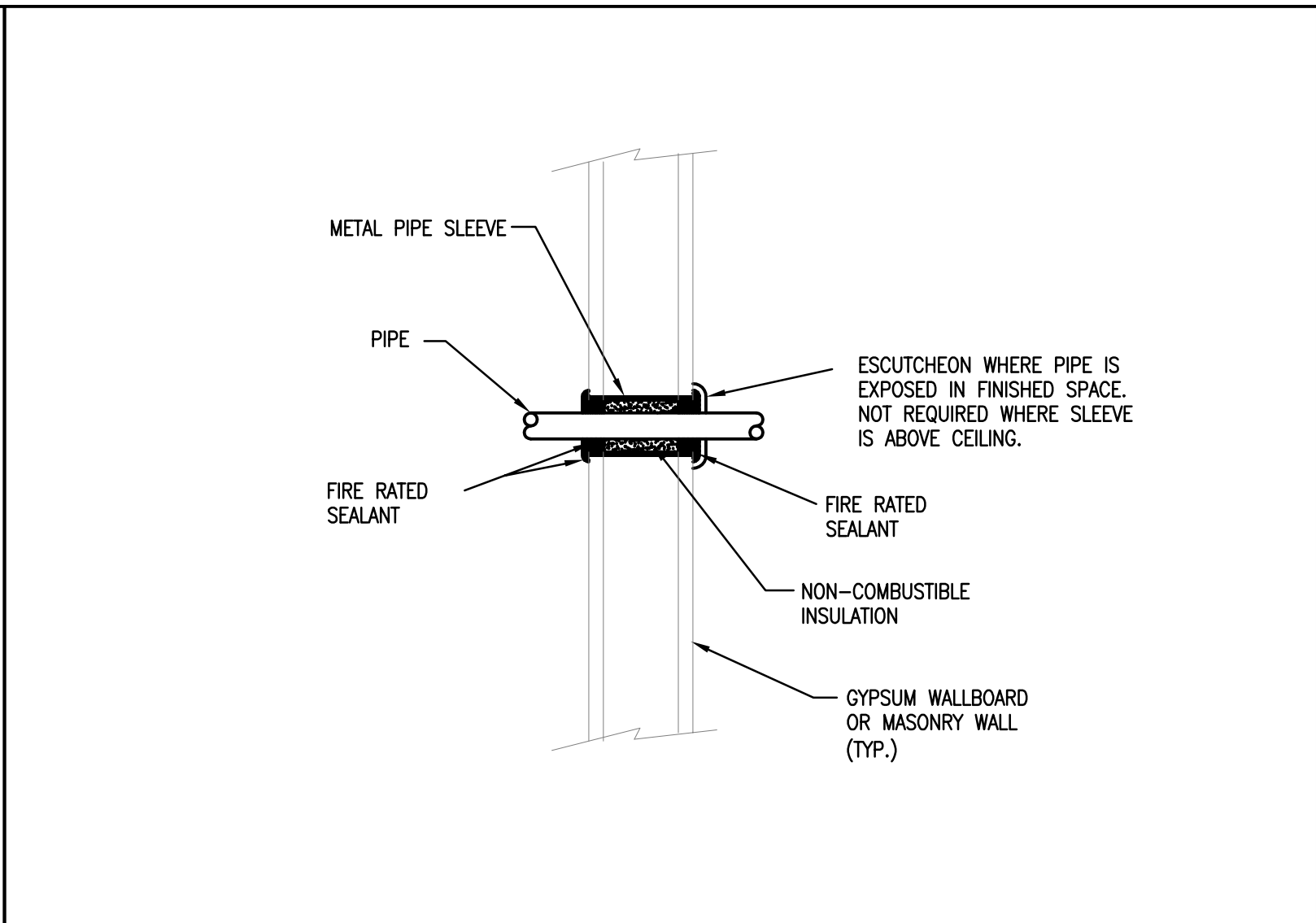
2 PIPE THROUGH FLOOR ABOVE GRADE
P601 NO SCALE



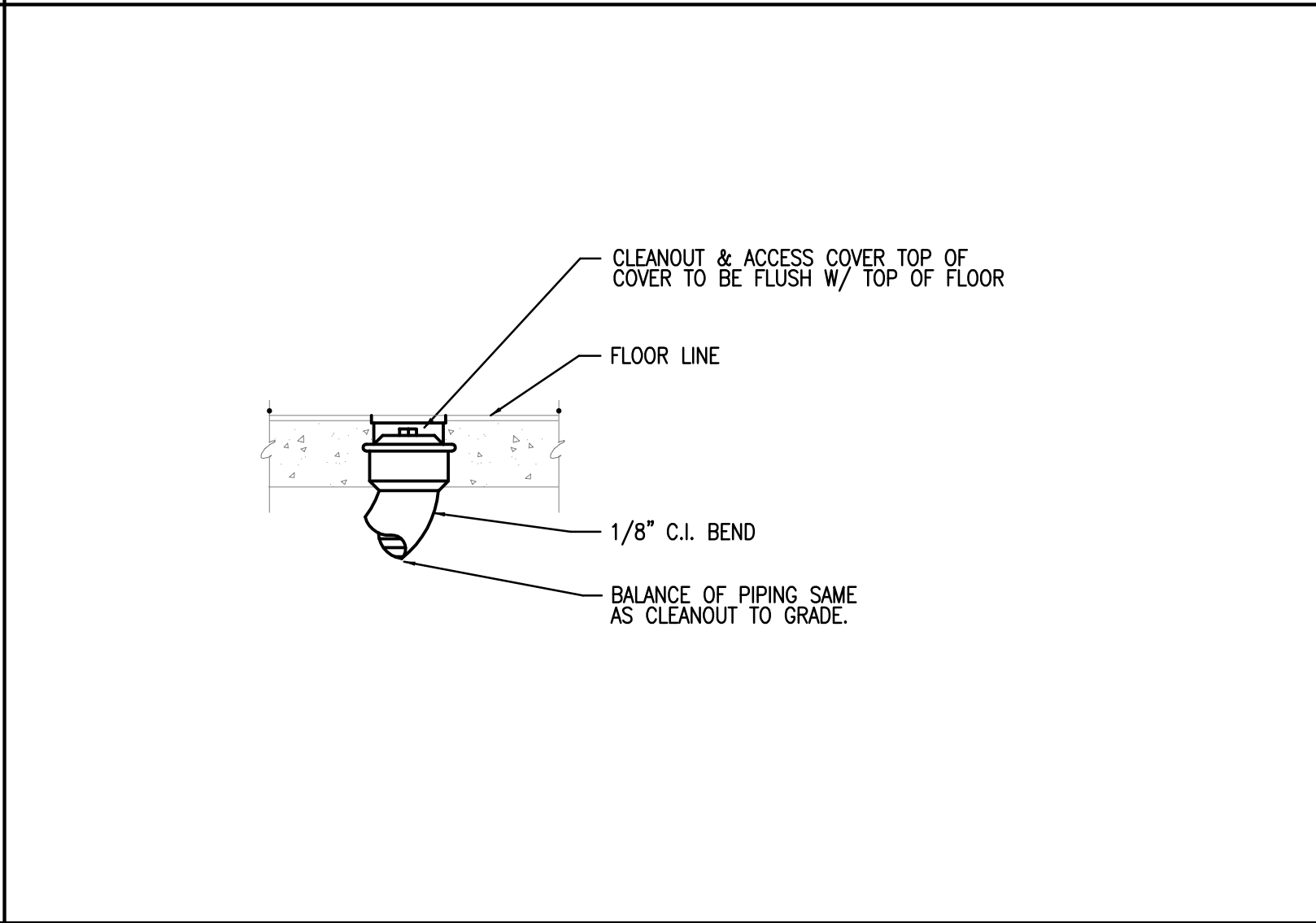
5 WALL CLEANOUT
P601 NO SCALE



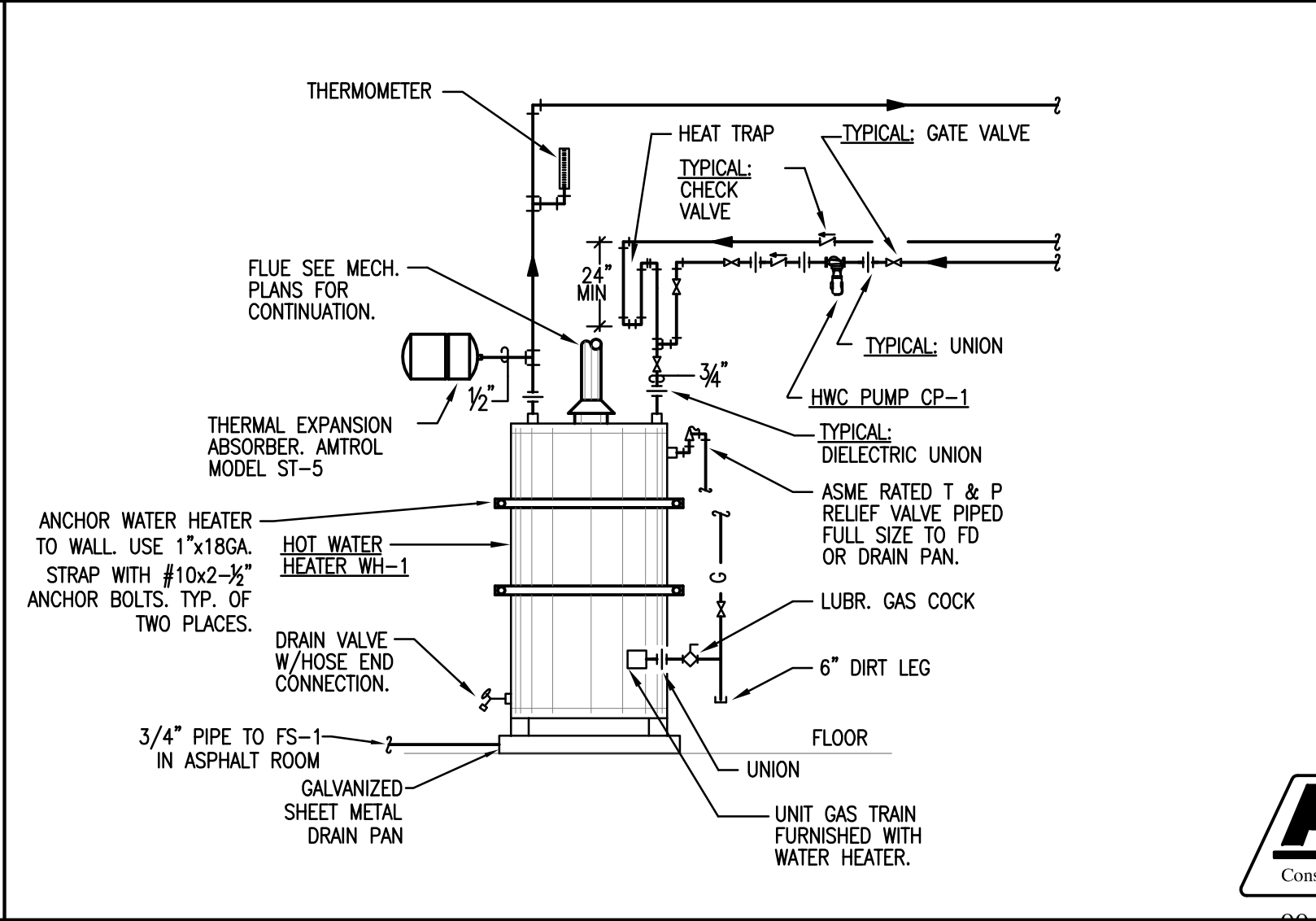
8 PIPING THROUGH ON GRADE FLOOR
P601 NO SCALE



3 PIPING THROUGH FIRE-RATED WALL
P601 NO SCALE



6 FLOOR CLEANOUT
P601 NO SCALE



9 GAS FIRED WATER HEATER
P6.2 NO SCALE



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BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

B

MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
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3	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

PVE PROJECT NO: 04045.02

DRAWN BY: M.M.

CHK'D BY: A.D.S.

SHEET TITLE

DETAIL
SHEET

A

SHEET NUMBER

P601

SHEET 044 OF 053

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C

B

A

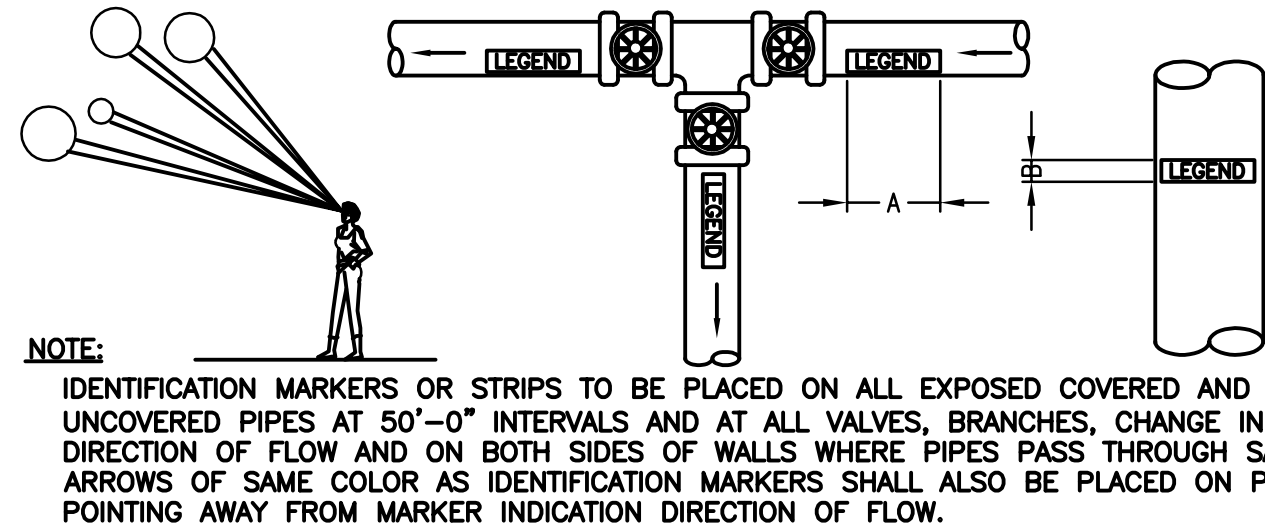
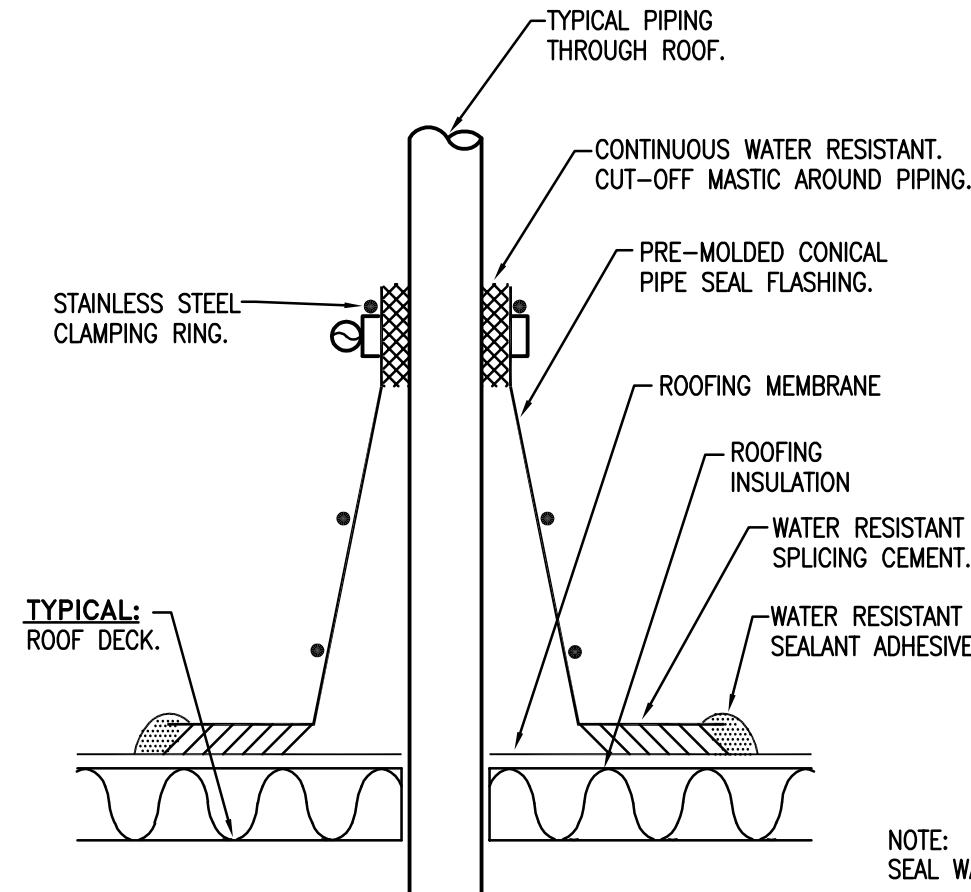
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4

5

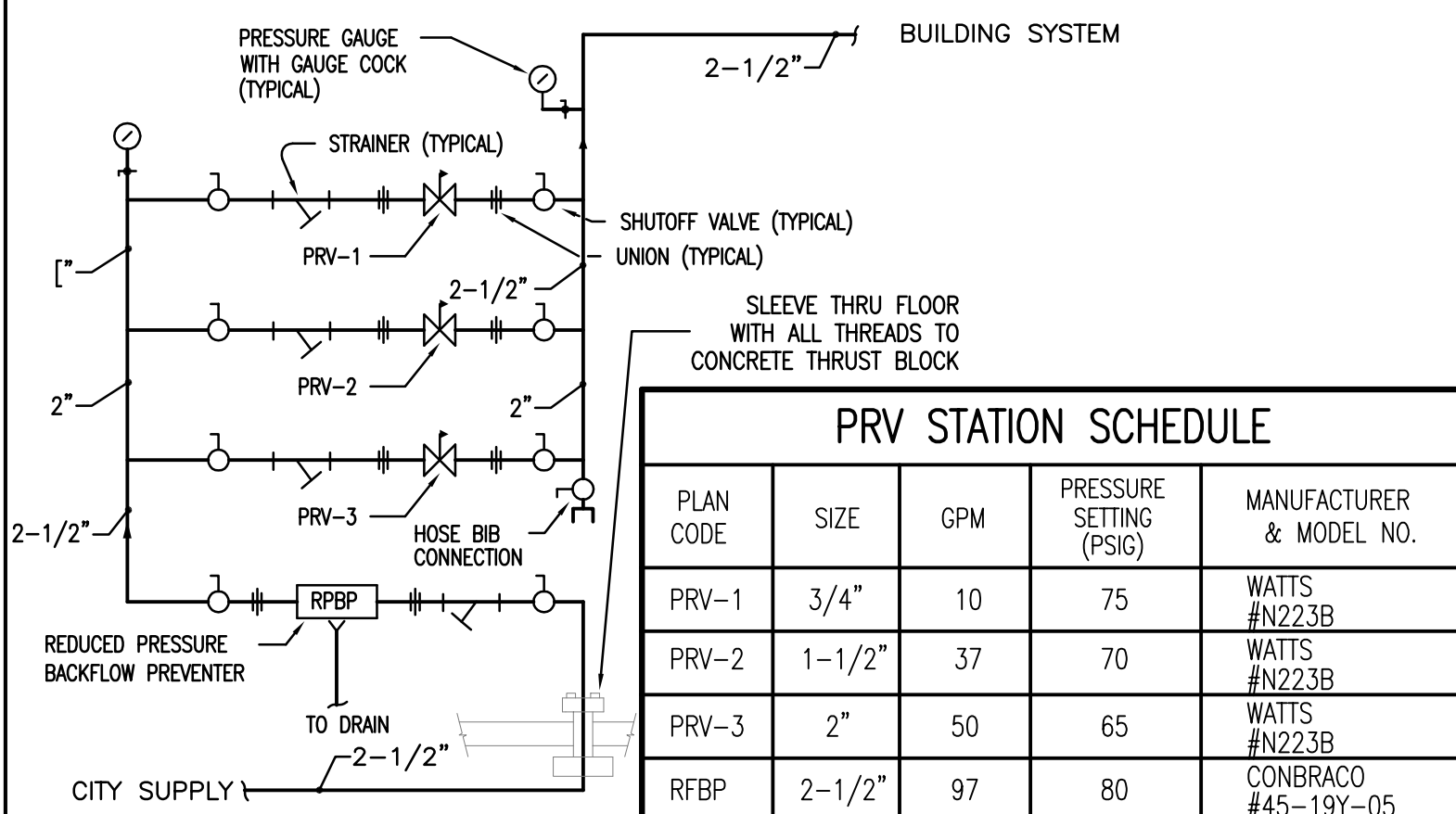
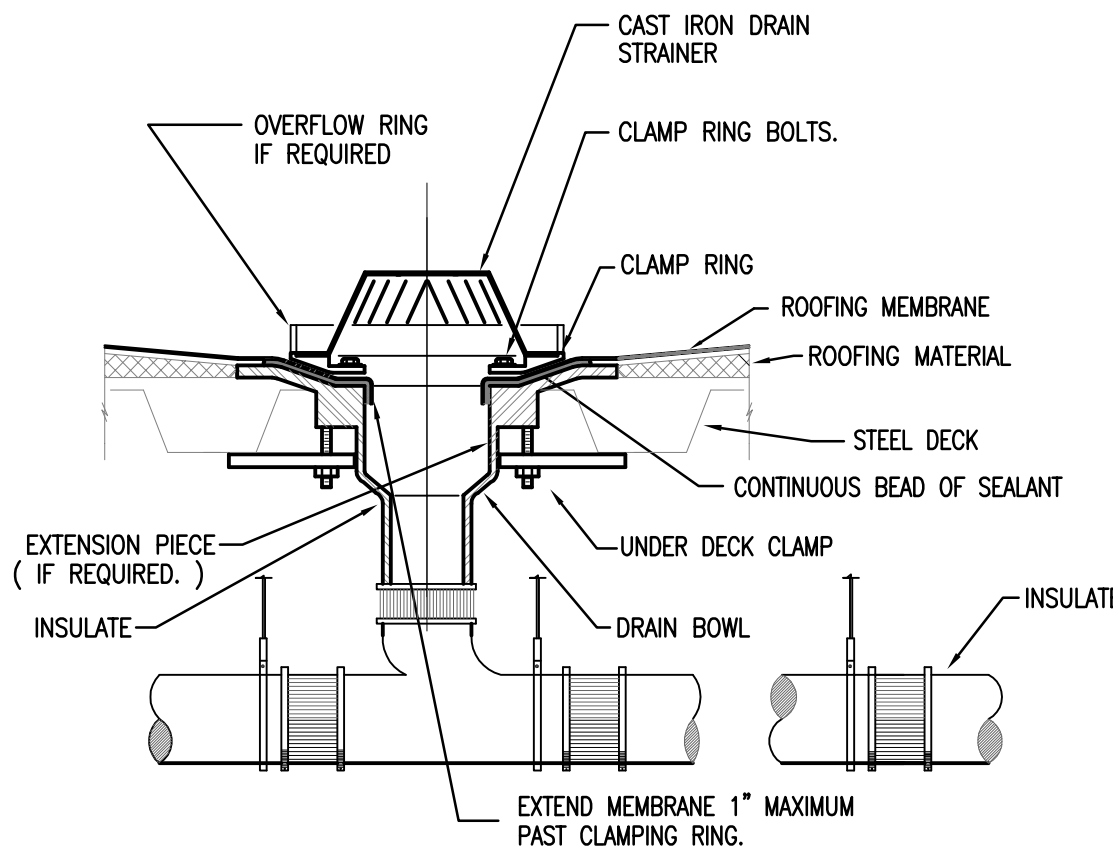
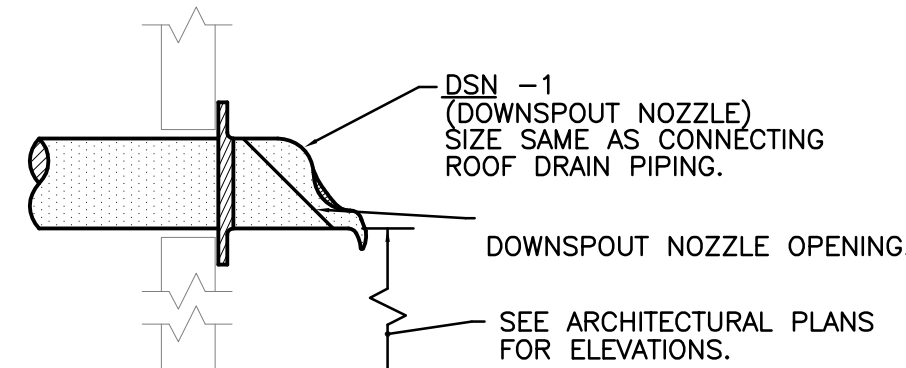


OUTSIDE DIAMETER OF PIPE OR COVERING		LENGTH OF COLOR FIELD		SIZE OF LETTERS	
INCHES	MM	INCHES	MM	INCHES	MM
3/4" TO 1-1/4"	19 TO 32	8"	200	1/2"	13
1-1/2" TO 2"	38 TO 51	8"	200	3/4"	19
2-1/2" TO 6"	64 TO 150	12"	300	1-1/4"	32
8" TO 10"	200 TO 250	24"	600	2-1/2"	64
OVER 10"	OVER 250	32"	800	3-1/2"	89

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RETURN	YELLOW	BLACK ON YELLOW
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED
NATURAL GAS	YELLOW	BLACK ON YELLOW
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

1 PIPE THROUGH ROOF DETAIL
P602 NO SCALE

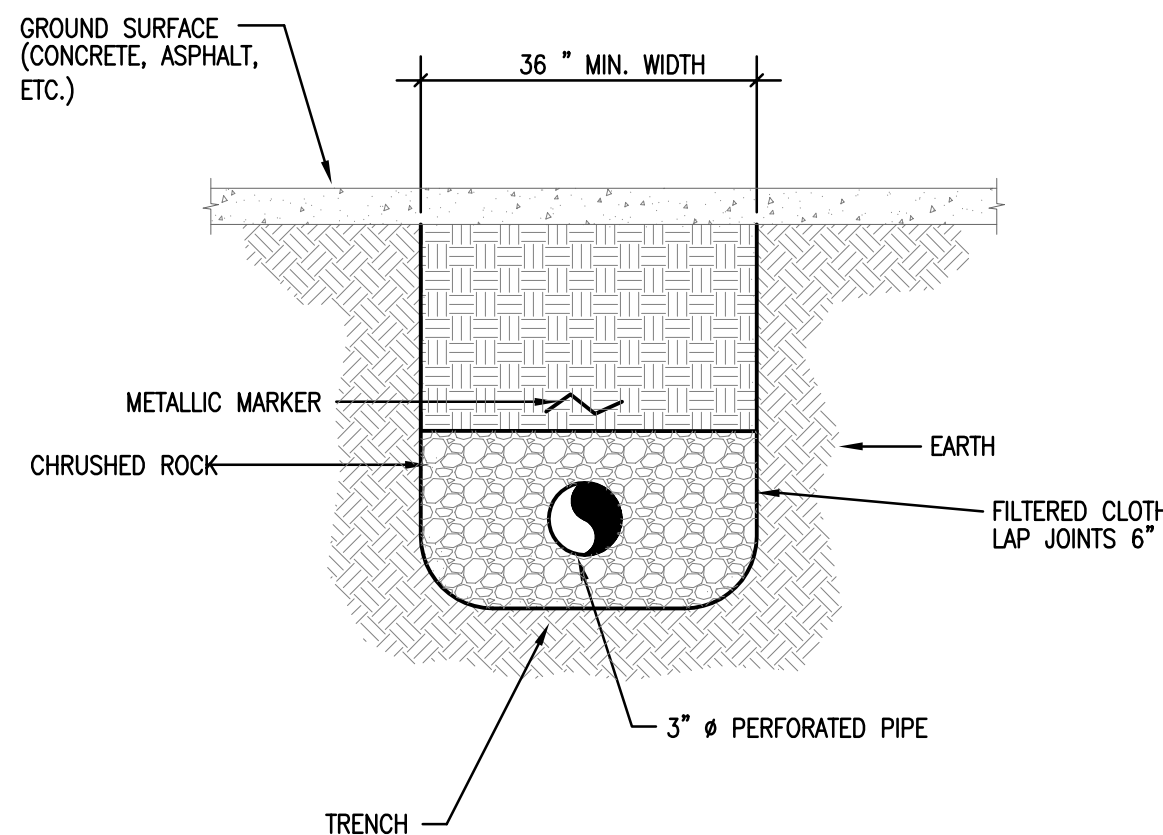
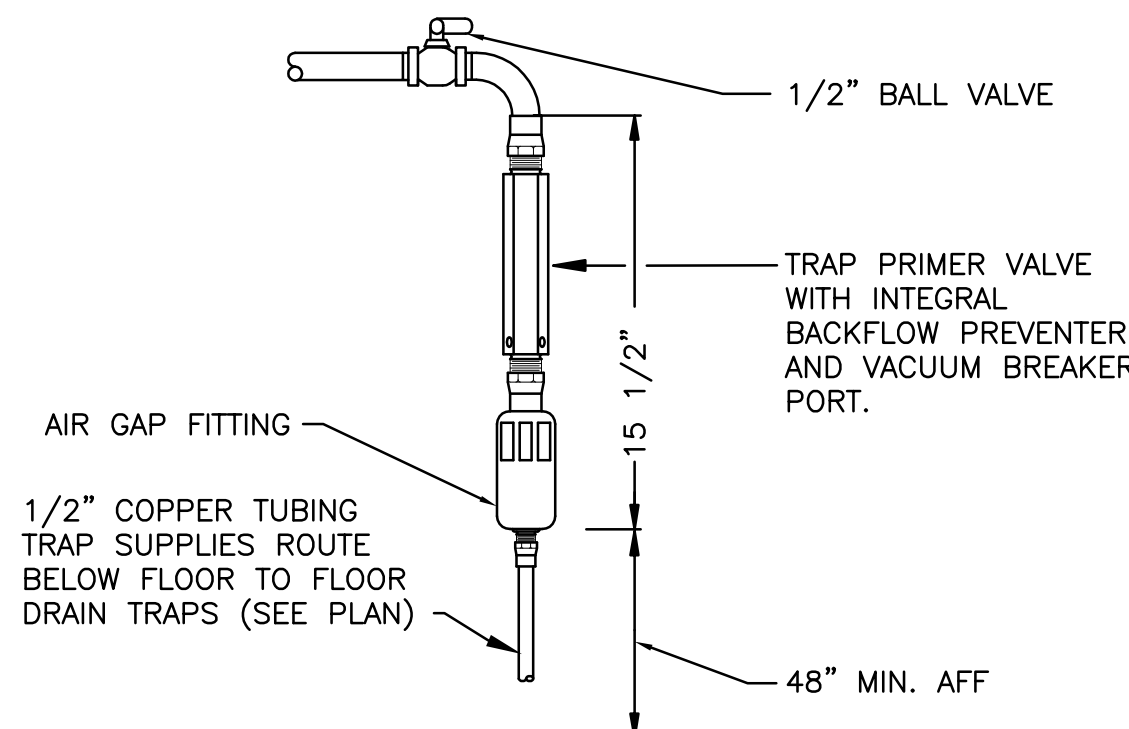
2 PIPE IDENTIFICATION DETAIL
P602 NO SCALE



3 DOWNSPOUT NOZZLE DETAIL
P602 NO SCALE

4 ROOF DRAIN DETAIL
P602 NO SCALE

5 PRV STATION DETAIL
P602 NO SCALE



6 TRAP PRIMER DETAIL
P602 NO SCALE

7 FRENCH DRAIN PIPE DETAIL
P602 NO SCALE



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PROJECT TITLE:

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CAMP WILLIAMS
DRAPER, UT

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ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

PVE PROJECT NO: 04045.02
DRAWN BY: M.M.
CHK'D BY: A.D.S.

SHEET TITLE



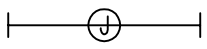

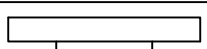












DETAIL
SHEET

SHEET NUMBER




P602

SHEET 045 OF 053





LIGHTING SYSTEMS SYMBOL LIST

SYMBOL	DESCRIPTION
	RECESSED FLUORESCENT FIXTURE
	SURFACE MOUNTED FLUORESCENT FIXTURE
	FLUORESCENT STRIP LIGHT FIXTURE
	EXTERIOR WALL MOUNTED FIXTURE WITH REMOTE EMERGENCY BATTERY BACK-UP
	WALL MOUNTED FIXTURE
	FIXTURE WITH EMERGENCY BATTERY BACK-UP AND NIGHT LIGHT
	EXTERIOR LIGHT FIXTURE WITH INTEGRAL MOTION SENSOR
	EXIT LIGHT. ARROWS SHOW EXIT DIRECTION
	SINGLE POLE TOGGLE SWITCH - 20 AMP
	SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT
	THREE WAY TOGGLE SWITCH - 20 AMP
	PILOT LIGHT TOGGLE SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR - U = ULTRASONIC, I = INFRARED, DT = DUAL TECH
	WALL MOUNTED OCCUPANCY SENSOR - U = ULTRASONIC, I = INFRARED, DT = DUAL TECH.
	30 MINUTE, SPRING WOUND, WALL MOUNTED TIMER SWITCH
	LIGHTING FIXTURE CALLOUT. NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED
	REFERENCE NOTE CALLOUT













POWER SYSTEMS SYMBOL LIST

SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP GROUND FAULT INTERRUPTER
	TWIST-LOCK RECEPTACLE
	4-PLEX CONVENIENCE OUTLET - 20 AMP
	SPECIAL PURPOSE SINGLE PHASE OUTLET
	POWER / COMMUNICATIONS POLE
	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	CONDUITS CONCEALED IN FLOOR OR BELOW GRADE
	CONDUITS CONCEALED IN CEILING AND WALLS
	ARROWS INDICATE HOME RUNS - LINES INDICATE NUMBER CONDUCTORS
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	COMBINATION STARTER/FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	MOTOR LOCATION
	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
	ELECTRICAL PANEL LOCATION
	ELECTRICAL METER LOCATION
W.P.	INDICATES WEATHER PROOF EQUIPMENT
A	INDICATES DEVICE IS ABOVE COUNTER TOP
CLG	INDICATES CEILING MOUNTED DEVICE
	MECHANICAL EQUIPMENT CALLOUT
	REFERENCE NOTE CALLOUT
	FLUSH FLOOR OUTLET WITH COMMUNICATIONS OUTLET

COMMUNICATION SYSTEMS SYMBOL LIST

SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL BOARD
	FLUSH VOICE / DATA OUTLET
	INDICATES DEVICE IS ABOVE COUNTER TOP
	REFERENCE NOTE CALLOUT

FIRE ALARM SYSTEM SYMBOL LIST

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL LOCATION
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR
	FIRE ALARM PHOTOELECTRIC DUCT DETECTOR
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HORN WITH STROBE HIGH DECIBEL
	FIRE ALARM HORN HIGH DECIBEL
	A.D.A. STROBE FOR FIRE ALARM
	FIRE SPRINKLER FLOW SWITCH
	FIRE SPRINKLER TEMPER SWITCH
	FIRE/SMOKE DAMPER
	FIRE ALARM RELAY
F.A.C.P.	FIRE ALARM CONTROL PANEL
F.A.R.A.P.	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	REFERENCE NOTE CALLOUT

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	2' x 4' LAT-IN FLUORESCENT FIXTURE, 3 LAMP, PARABOLIC LENS, 18 CELL, SEMI-SPECULAR FINISH, UNIVERSAL VOLTAGE BALLAST.	(3) 32W T8	COLUMBIA METALUX LIGHTOLIER	P4D24-332G-MA36-EBBLHUNV (2EP36X SERIES EQUAL) (DPA SERIES EQUAL)
T-1E	SAME AS T-1, BUT ONE LAMP ON BATTERY BACK-UP	(3) 32W T8	COLUMBIA METALUX LIGHTOLIER	P4D24-332G-MA36-EBBLHUNVB1 (2EP36X SERIES EQUAL)B1 (DPA SERIES EQUAL)B1
T-2	1 X 4 FLUORESCENT SURFACE MOUNT WRAPAROUND LENS LIGHT FIXTURE	(2) 32W T8	COLUMBIA DAYBRITE METALUX	W4-232-EBBLH20 (EQUAL) (EQUAL)
T-3	FLUORESCENT 4-0" WALL MOUNTED VANITY LIGHT, UNIVERSAL VOLTAGE BALLAST, OPAL ACRYLIC LENS THERMOPLASTIC END CAPS, STEEL HOUSING, UNIVERSAL VOLTAGE BALLAST.	(2) 32W T8	COLUMBIA METALUX LIGHTOLIER	W4-232-EBBLHUNV (EQUAL) (EQUAL)
T-4	RECESSED FLUORESCENT DOWNLIGHT, MET LOCATION APPROVED, 6" APERTURE, FLAT OPAL LEXAN LENS	18 W QUAD TUBE C.F.	PRESCOLITE HALO LITHONIA	CBX-120-HPF-TL31 (EQUAL) (EQUAL)
T-5	4' FLUORESCENT STRIP LIGHT WITH WIRE GUARD	(2) 32W T8	COLUMBIA METALUX LIGHTOLIER	CS4-232-EBBLHUNV-CSHG4 (EQUAL) (EQUAL)
T-6	EXTERIOR EMERGENCY WALL SCONCE, SMALL PROFILE, PAINT TO MATCH ADJACENT SURFACE, MOUNT REMOTE BALLAST IN INTERIOR OF BUILDING ON WALL, AT HEIGHT AND LOCATION TO BE DETERMINED BY ARCHITECT. 1000 LUMEN BATTERY PACK	(1) 42W TRIPLE TUBE C.F.	GARDCO VISIONAIRE HUBBELL PACE	11BR-MT-42TRF-120-SCBA-B84C SL-13-PL42-F-H-DL-SCBA-B1 PL-12-FCBA-EH-10TA-420 (650 LUMEN REMOTE TNSL-42TRF-SCBA-120-GPCF-B4S AERH-W620-PLTA-120-W4-SCBA-WPL-REMOTE BALLAST)
T-7	EXTERIOR WALL MOUNTED METAL HALIDE LIGHT FIXTURE. FULL CUTOFF, TRAPEZOIDAL STYLE.	(1) 100W MH	HUBBELL GARDCO VISIONAIRE	THSHT-100MH-DL-BK-120 (EQUAL) (EQUAL)
T-8	NOT USED	--	--	--
T-9	12'-0" LINEAR INDIRECT FIXTURE WITH PERFORATED 1/4" LID, PROFILE TYPE WITH CAST ALUMINUM END CAPS, (2) T540 LAMPS WIDE, TWO SWITCH LEG CIRCUITS, LENGTHS AND QUANTITIES AS SHOWN ON THE DRAWINGS, WHITE HOUSING, FULLY ADJUSTABLE AIRCRAFT CABLE SUSPENSION, VERIFY LENGTH, CLEAR TOP DUST COVER, MATTE WHITE, CONTINUOUS RUN.	(2) 54W T540 WIDE	ALERA FINELITE LIGHTOLIER METALUFEN CORELITE	CV-2T540-PESF-CRXX-EBBLH20-M4-XX-SCE-IB/OB-DC S2-XX-XX-T540-DC-M4-120-FA-GE-DUST COVER LSC-2-X-B-54-W4H-DC C15-B-R-C-A-4-W-6-A IP-WP-2T5-2C-120-ACXX-XX-DC
EX-1	LED EXIT SIGN, WHITE WITH GREEN LETTERS, THERMOPLASTIC HOUSING, NICAD BATTERY BACK-UP, UNIVERSAL MOUNT.	INCLUDED	DUALITE SURELITES LIGHTOLIER	LXUG6 (EQUAL) (EQUAL)

NOTES:

1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10% TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND HOWARD ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.

2. ALL FLUORESCENT LAMPS SHALL HAVE COLOR TEMPERATURE, AS SELECTED BY THE OWNER.

3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.

4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

5. ALL MR16 LAMPS SHALL HAVE BOTTOM LENS AND BE RATED AT 10,000 HOURS.

GENERAL NOTES:

- 1) REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 2) THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
- 3) MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
- 4) USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
- 5) SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
- 6) REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
- 7) ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
- 8) NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A ANY CONDUIT. EACH CIRCUIT SHALL CONSIST OF 1 CONDUCTOR FOR EACH PHASE, 1 NEUTRAL, AND 1 GROUND, FOR A TOTAL OF 3 CONDUCTORS.
- 9) THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOME RUNS WITH COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
- 10) THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THIN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 11) ALL PANELBOARDS SHALL HAVE FULL SIZE ISOLATED NEUTRAL AND GROUND COPPER BUSBARS.
- 12) SUCCESSFUL BIDDER FOR THE PANELBOARDS, MAIN DISTRIBUTION PANEL, ETC., SHALL INCLUDE IN THEIR SUBMITTALS, A LAYOUT OF THE ELECTRICAL ROOM TO SHOW THE ELECTRICAL GEAR FINAL LOCATIONS. (SCALE: 1/4" = 1'-0").
- 13) DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
- 14) ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
- 15) ALL METALLIC CONDUITS, JOINTS, FITTINGS, ETC., IN CONTACT WITH THE GROUND SHALL BE SPIRALLY WRAPPED WITH 3M SCOTCHGRAP-5, 20 MIL TAPE (OR APPROVED EQUAL). 1/2" OVERLAP IS REQUIRED.
- 16) ALL CONDUITS EXPOSED TO THE WEATHER SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED.
- 17) ALL EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILINGS.
- 18) ALL THE HOMERUNS MUST BE ACCESSIBLE IN THE CEILING PLENUM. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THIN CONDUCTORS FOR CONDUCTOR LENGTH OVER 100 FEET, NO. 8 THIN OVER 200 FEET, NO. 6 THIN OVER 300 FEET AND NO. 4 THIN OVER 400 FEET LENGTH.
- 19) PAINT ALL THE J-BOXES FOR FIRE ALARM SYSTEM WITH RED PAINT. MARK ALL THE CONDUIT FOR FIRE ALARM SYSTEM EVERY 8" WITH RED STRIPE.
- 20) THE FIRST 10' LENGTH OF ALL BURIED CONDUIT OVER 1" SHALL BE RIGID GALVANIZED STEEL WHERE THEY ARE LEAVING OR ENTERING THE BUILDING, MANHOLE, VAULT, ETC.
- 21) ALL UNDERGROUND CONDUIT SHALL BE BURIED 24" MINIMUM UNDER THE GROUND. PUT METALLIC YELLOW WARNING TAPE ABOVE ALL UNDERGROUND CONDUIT.
- 22) COORDINATE WITH THE ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
- 23) LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
- 24) USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
- 25) AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
- 26) SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
- 27) ALL DISCONNECTS, J-BOXES AND CONDUITS EXPOSED TO THE OUTSIDE WEATHER SHALL BE NON-CORROSIVE, WEATHER PROOF TYPE.
- 28) ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
- 29) ALL MATERIALS USED IN THIS INSTALLATION SHALL BE UL, APPROVED AND NEW.
- 30) ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX AND MC CABLE ARE NOT PERMITTED).
- 31) FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).
- 32) NO CONDUITS SHALL RUN IN DUCT WORK.
- 33) TEMPORARY ELECTRICAL SERVICE IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND REMOVED BY THE ELECTRICAL CONTRACTOR.
- 34) PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
- 35) THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
- 36) ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP, 120 VOLT SPEC GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
- 37) THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR OTHER EQUIPMENT SHALL BE INSTALLED IN ENTRY OR PASS THROUGH ELECTRICAL ROOM OR SPACES ABOVE OR BELOW ELECTRICAL PANELS.
- 38) THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS. REFER TO BEGINNING ROUGH-IN.
- 39) THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL BID. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
- 40) PROVIDE MACHINE PRINTED ADHESIVE LABELS FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.
- 41) INSTALL EXIT SIGNS ON THE WALL IF POSSIBLE.
- 42) CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 43) SWITCHBOARDS, PANELBOARDS, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. (NEC 110-16).
- 44) PROVIDE ENGRAVED THERMOPLASTIC TAGS FOR ALL PANELBOARD AND EQUIPMENT DISCONNECTS. DISCONNECTS SHALL BE LABELED WITH EQUIPMENT DESIGNATION AND CIRCUIT BREAKER THEY ARE TIED TO.

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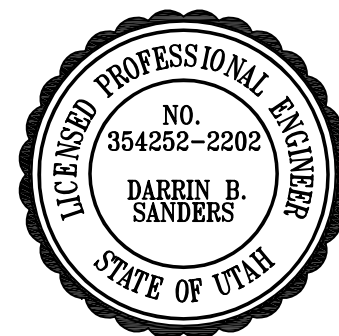
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CONSULTANTS:



BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
2	5/19/05	ADDENDA #2
3	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

DFCM PROJECT NO: 05006480

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DRAWN BY: KS

CHK'D BY: CS

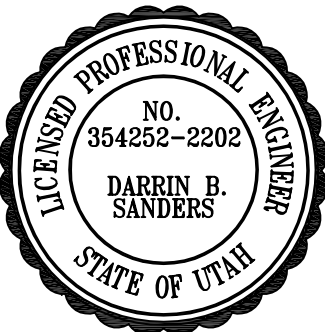
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NOTES AND SCHEDULES

SHEET NUMBER

EO. 01

SHEET 046 OF 055

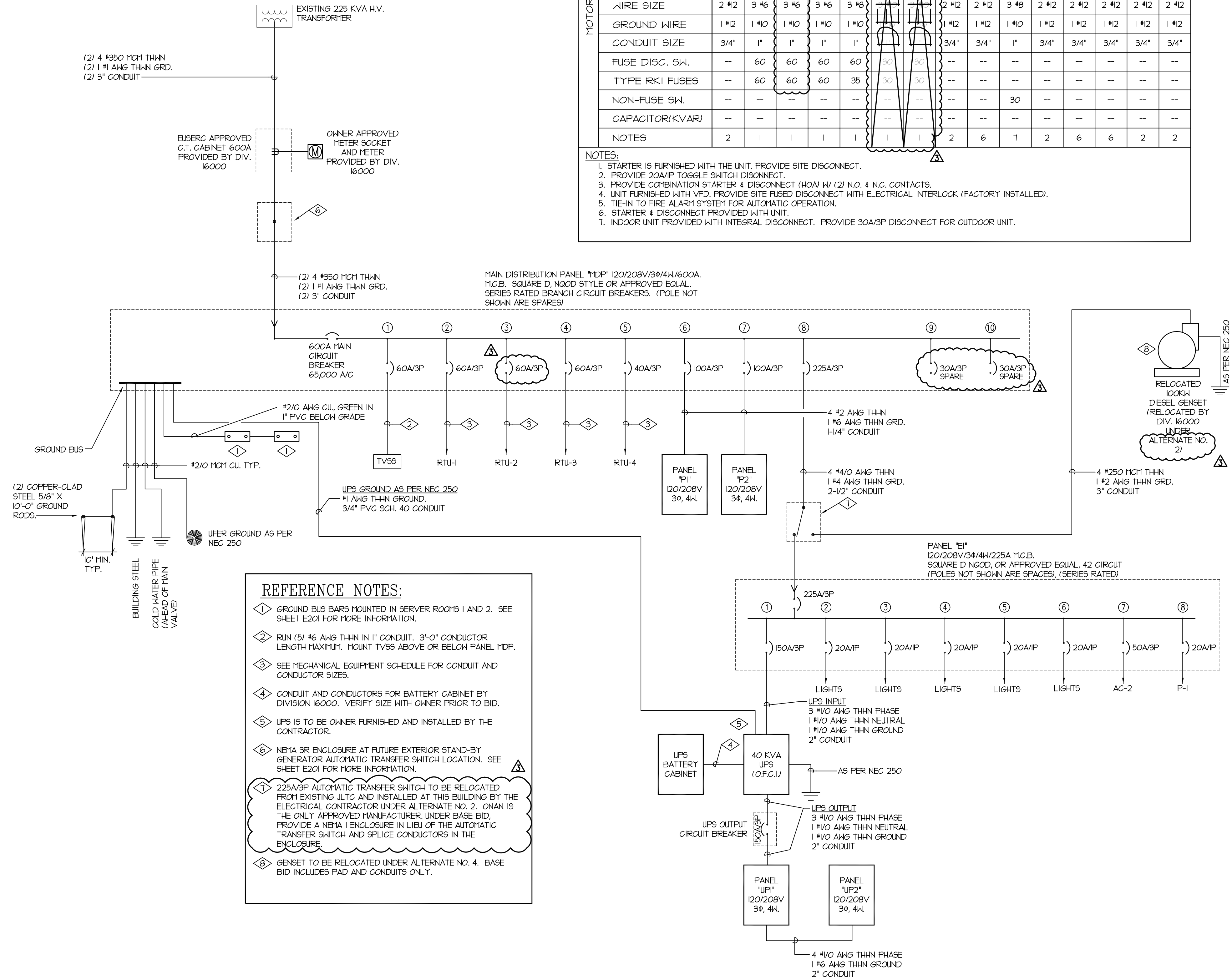


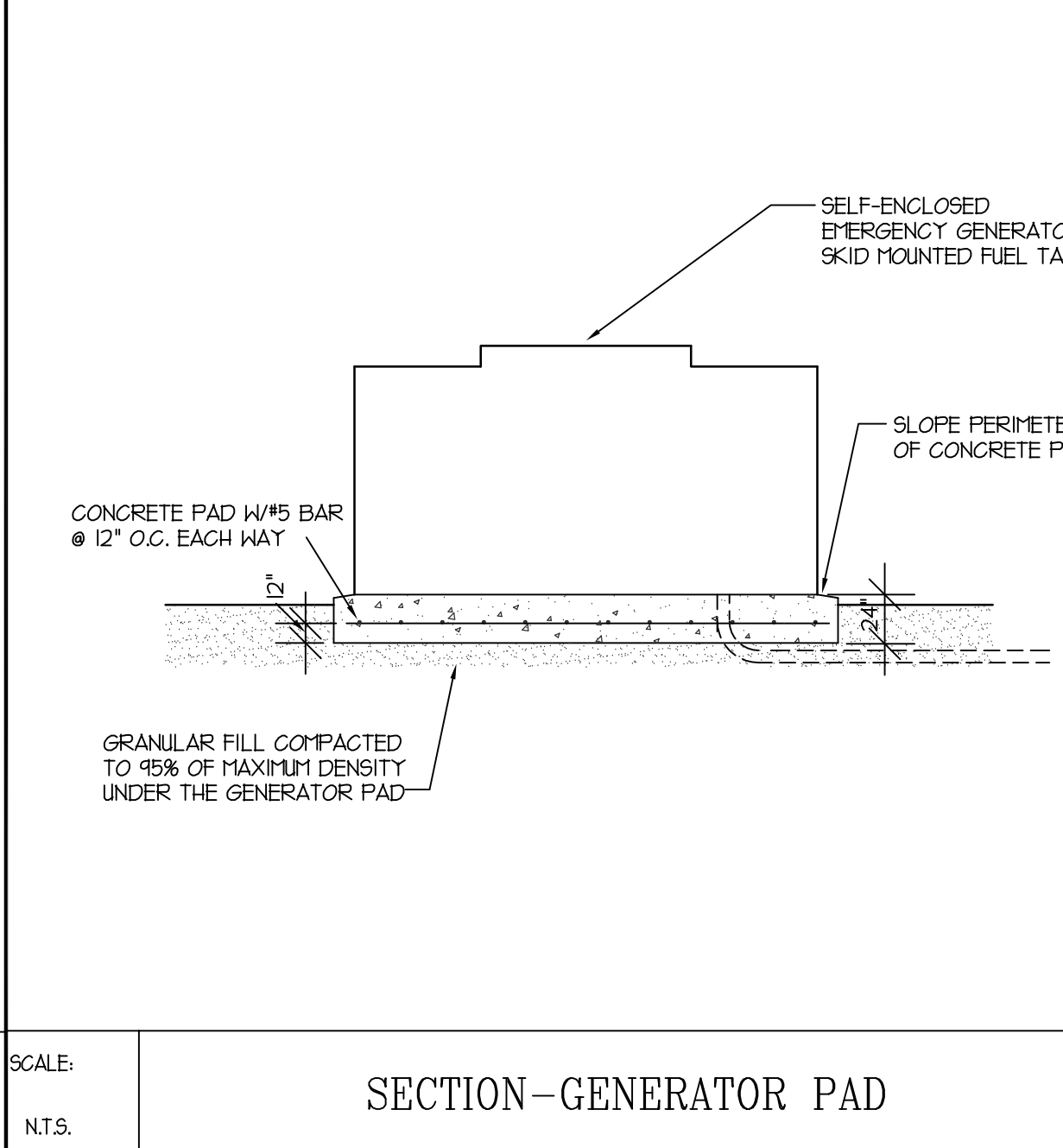
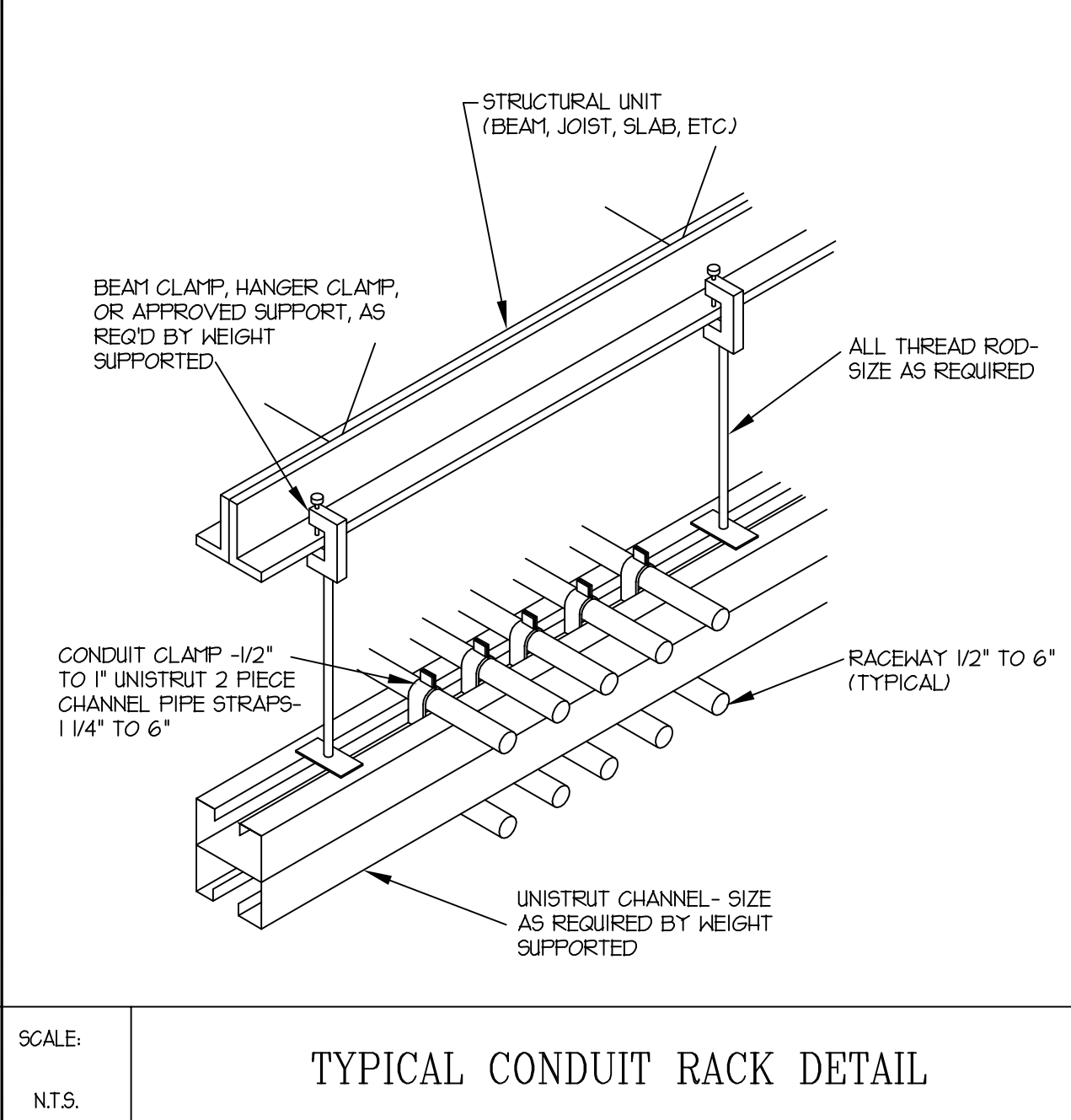
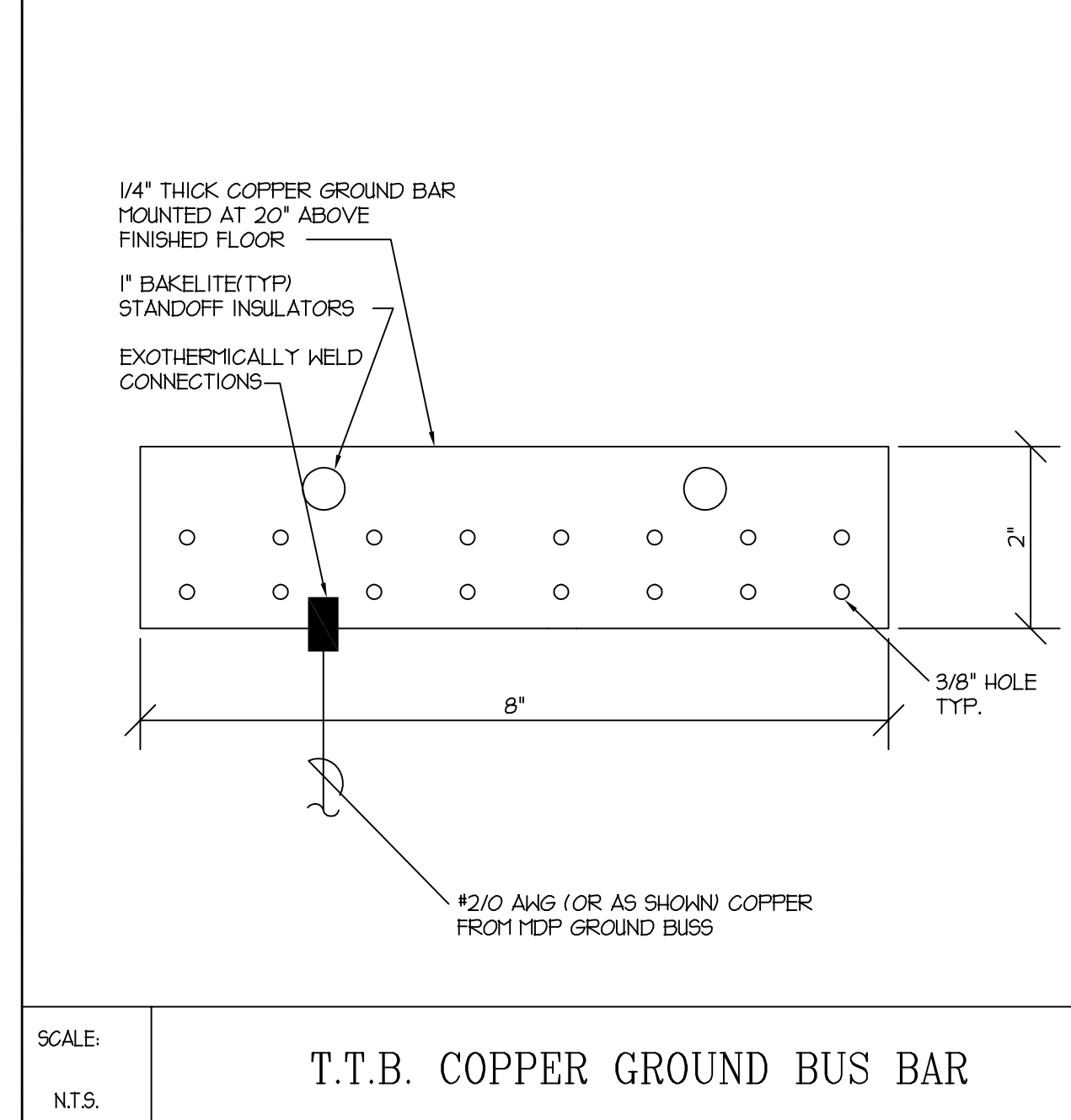
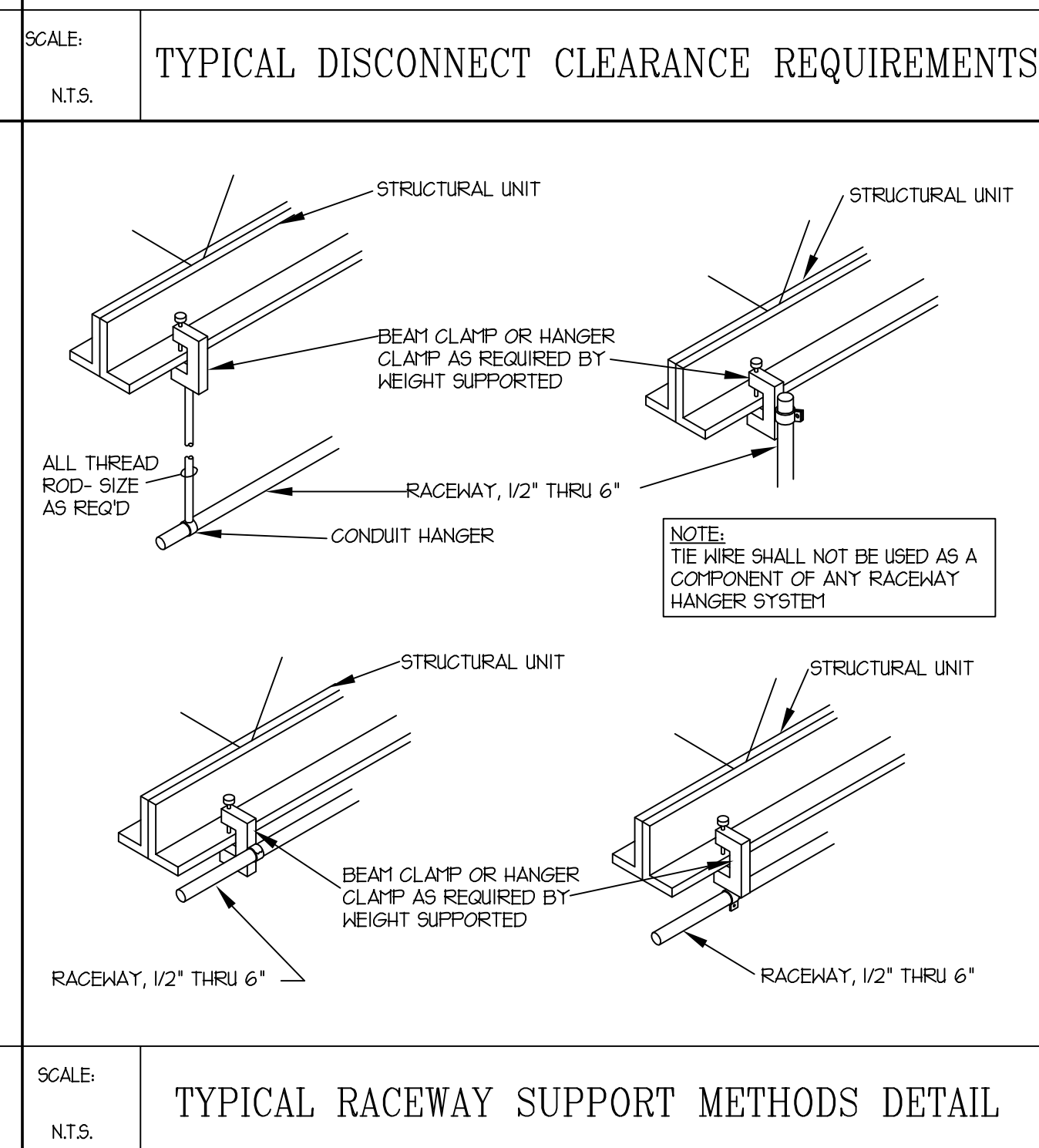
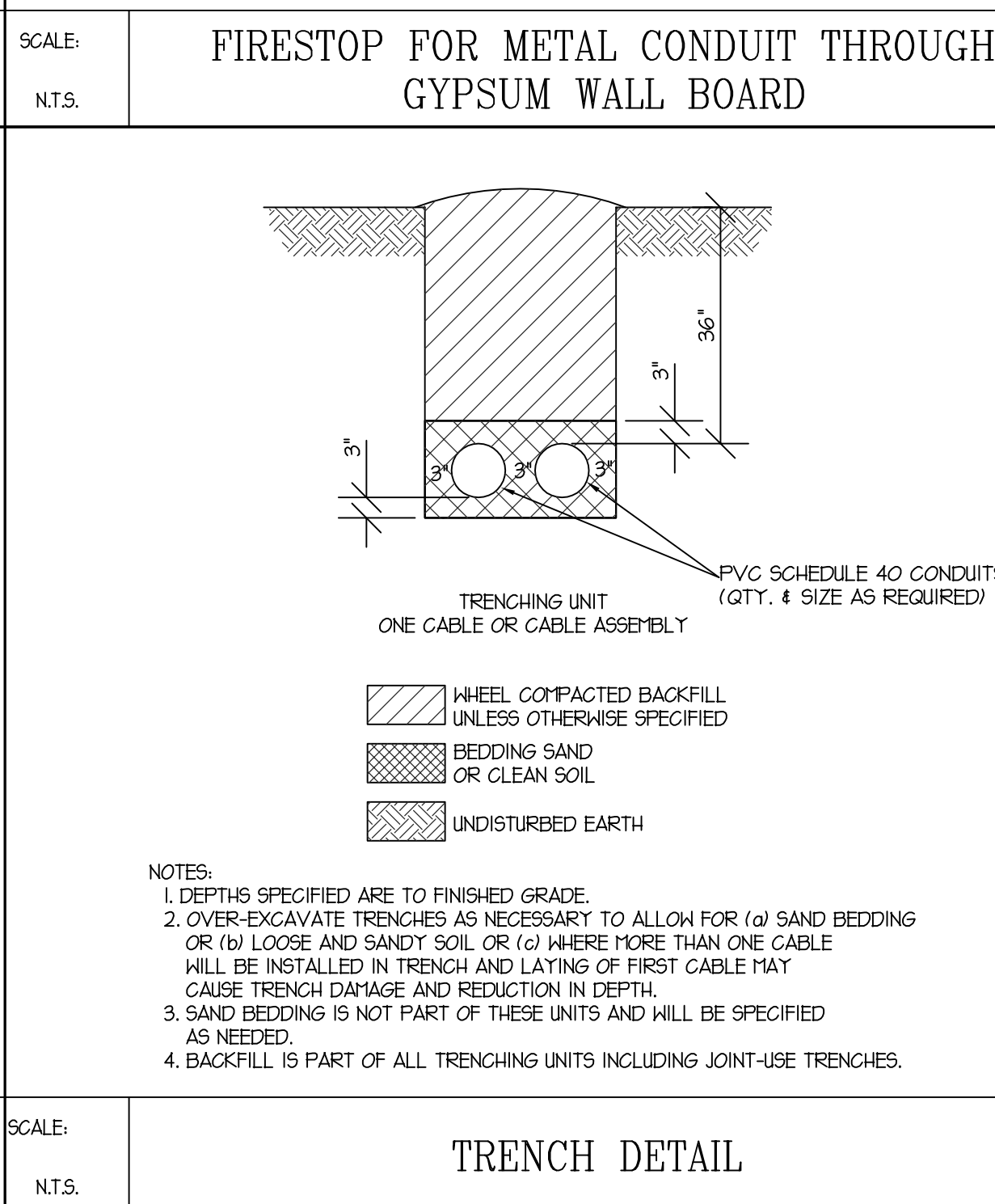
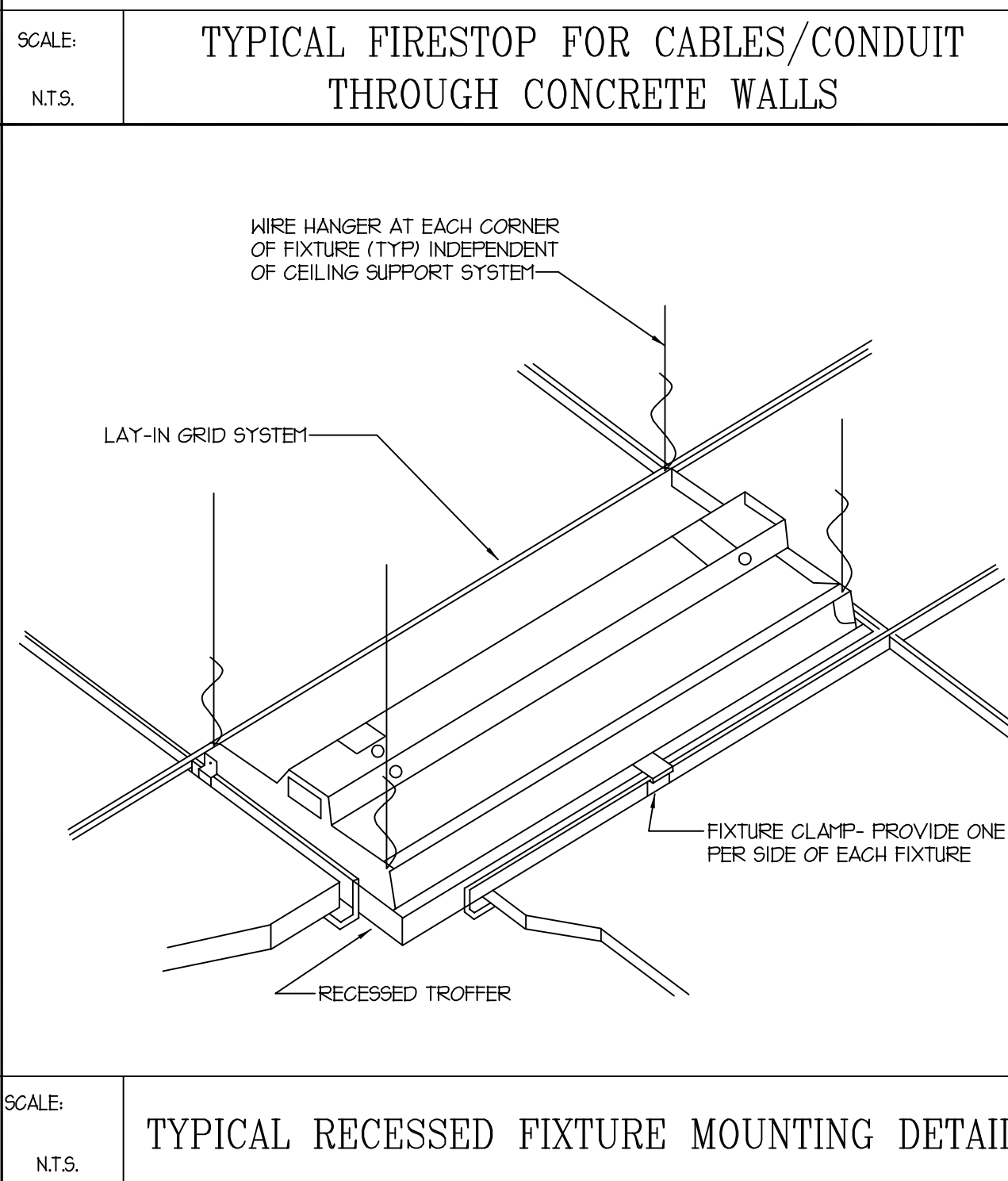
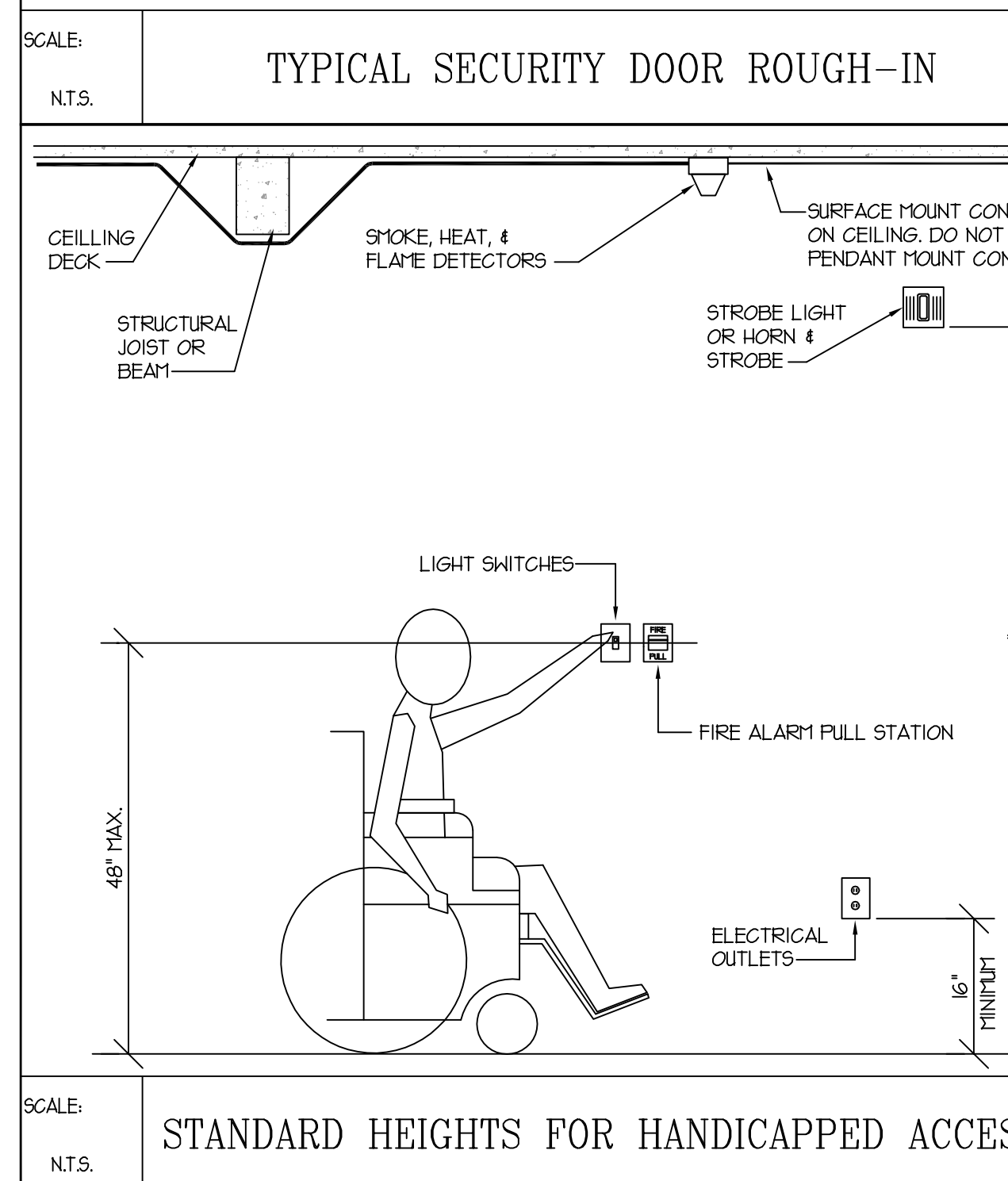
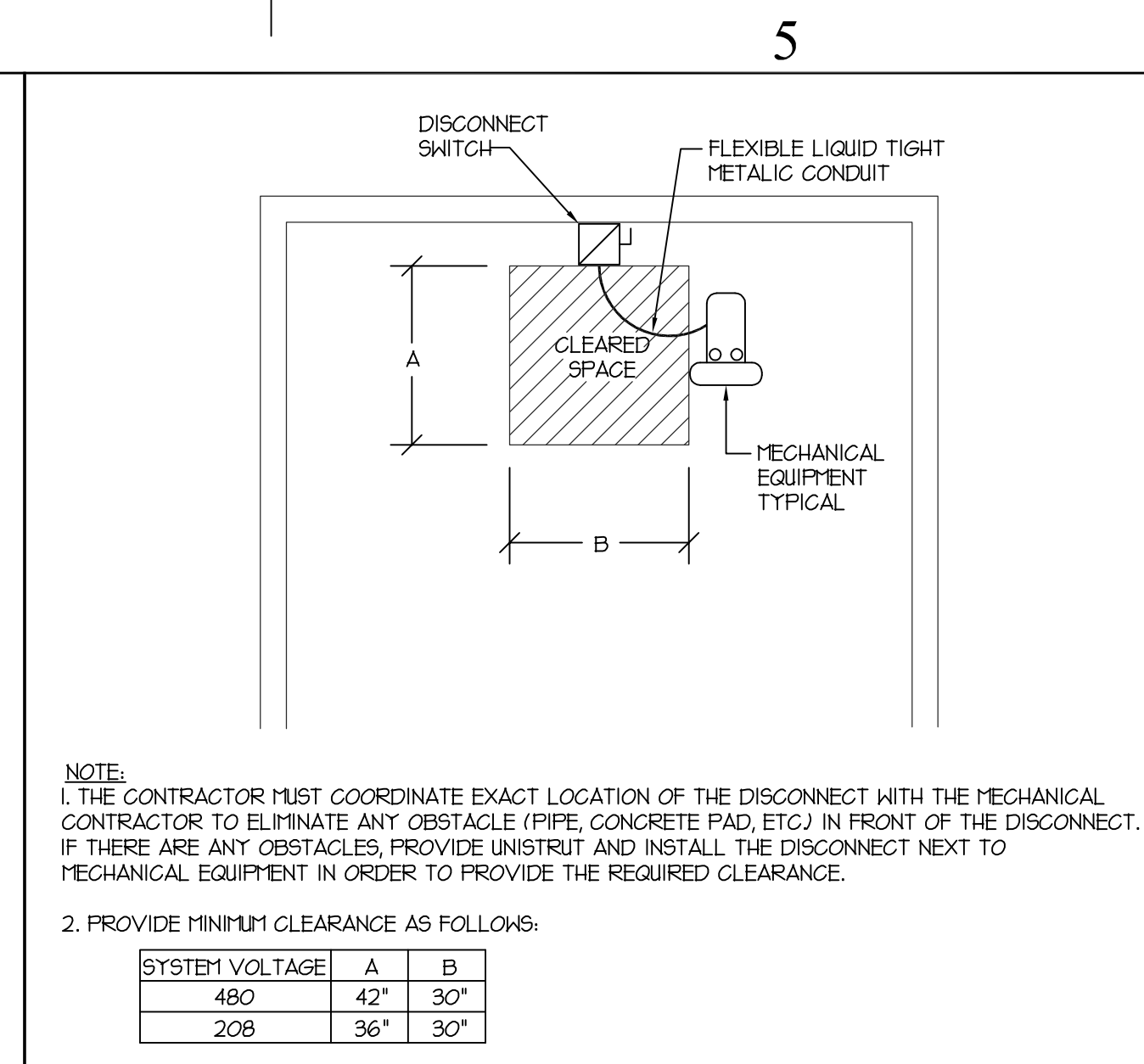
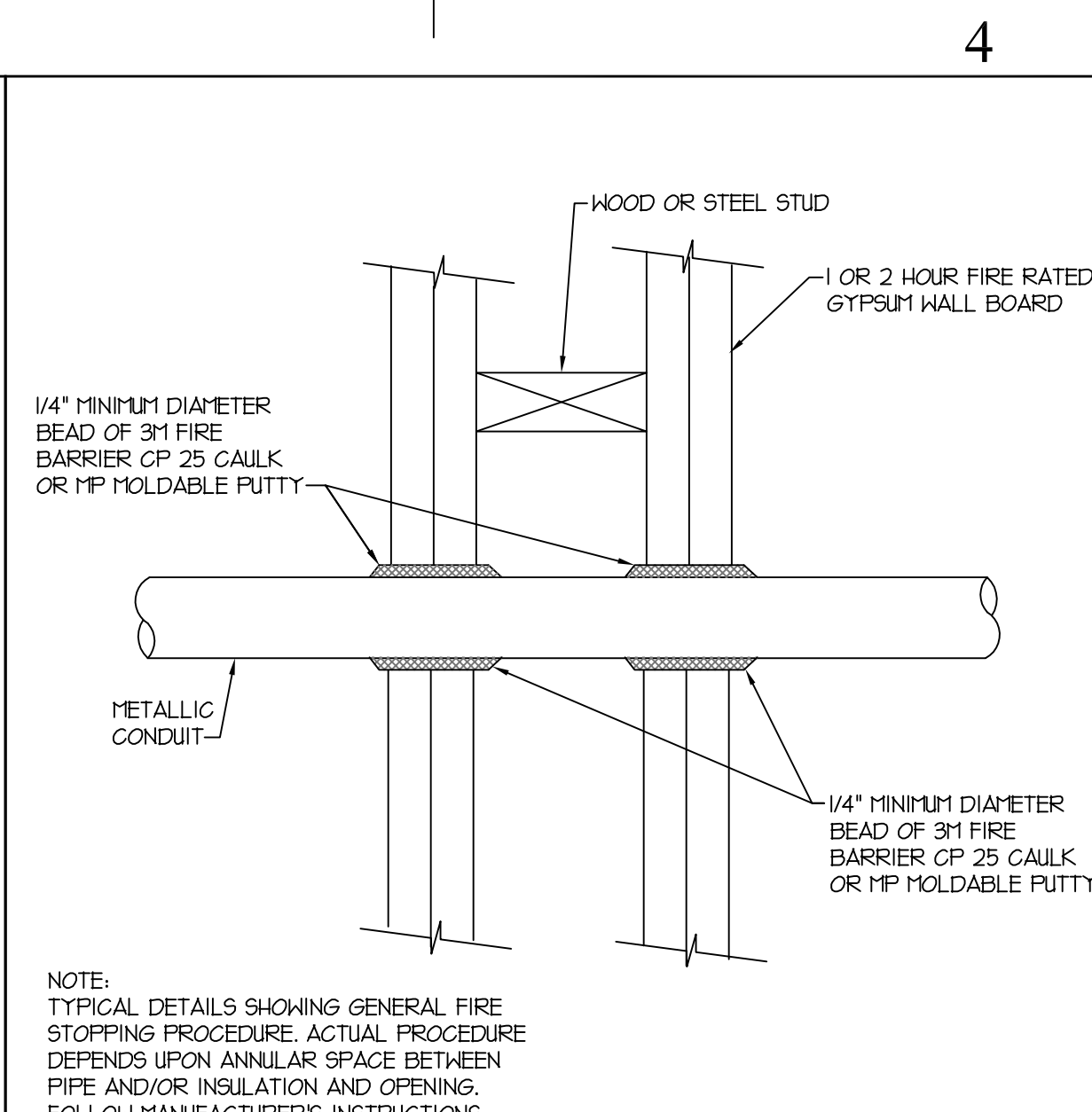
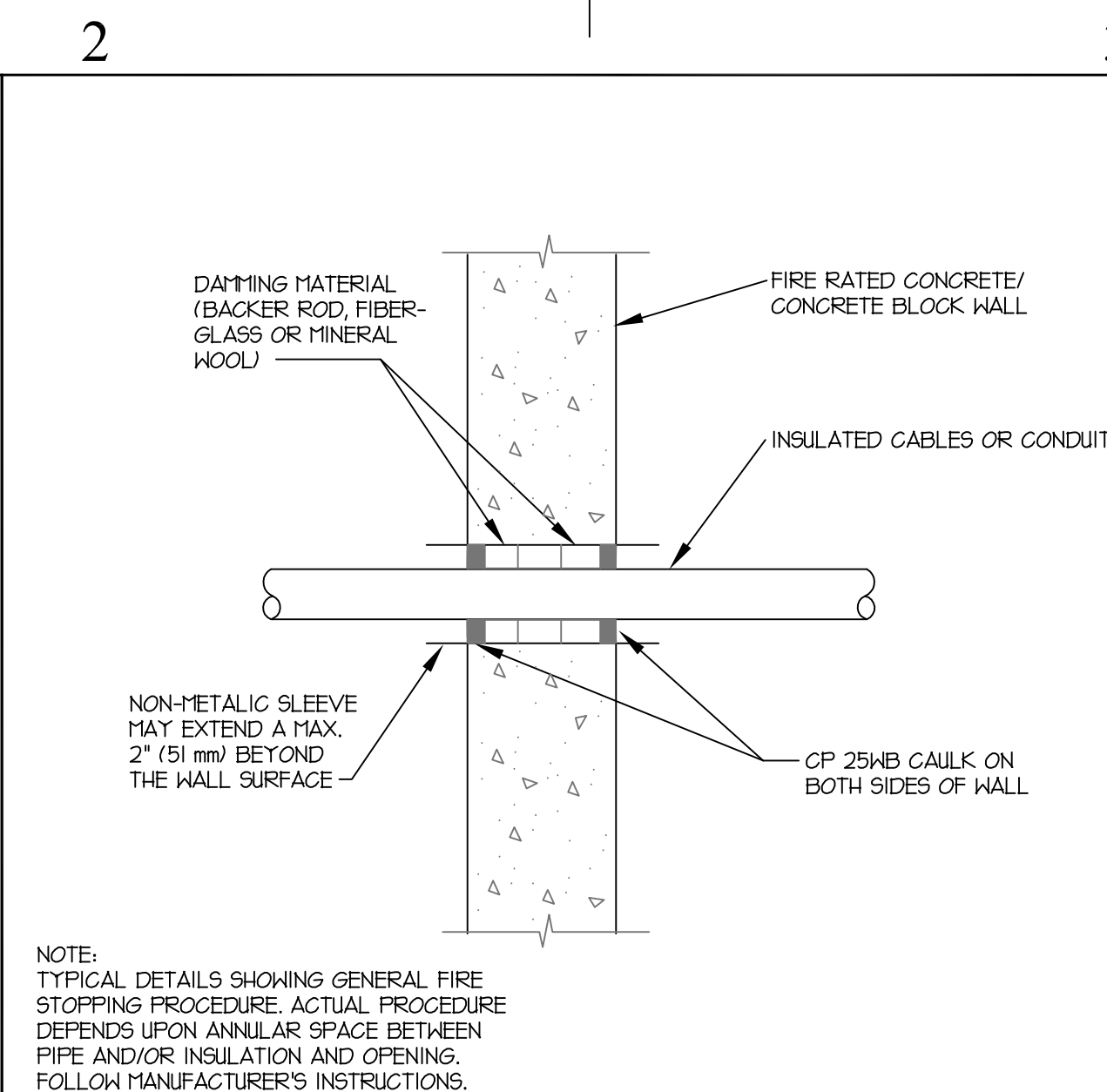
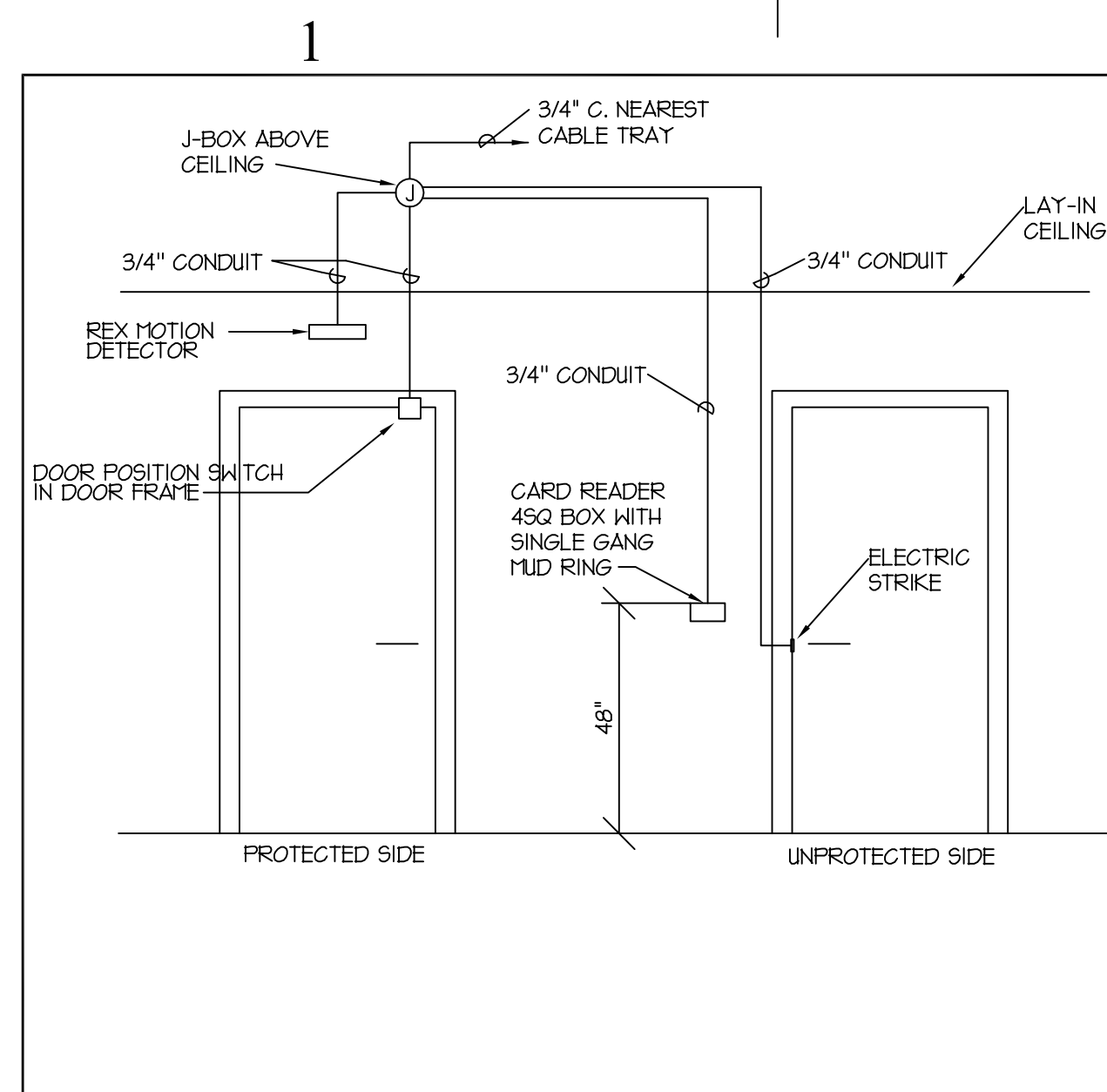
MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
2	5/19/05	ADDENDA #2
3	6/3/05	ADDENDA #3

MECHANICAL EQUIPMENT SCHEDULE

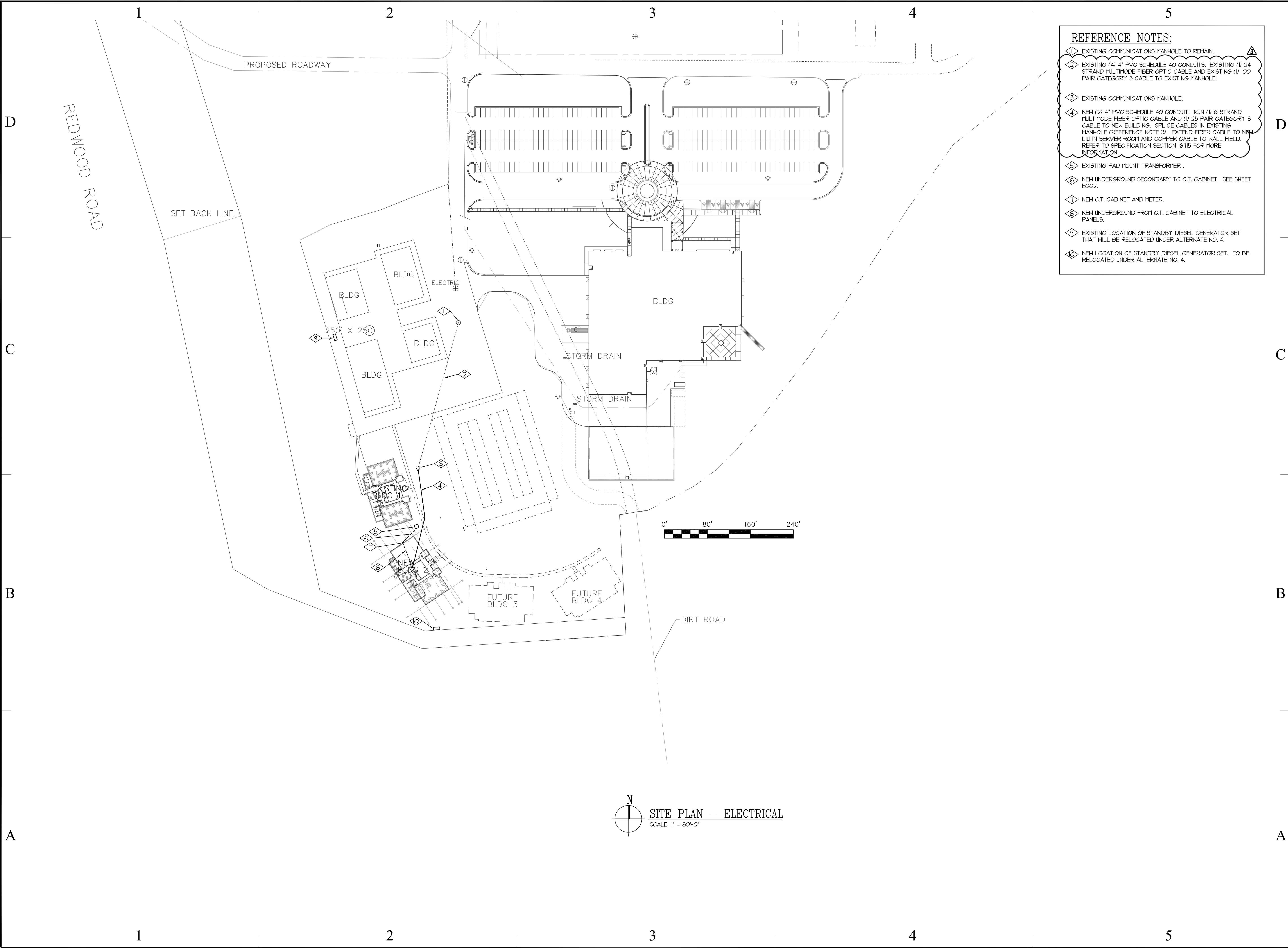
NAME OF MECHANICAL EQUIPMENT	ELECTRIC WALL HEATER	ROOFTOP UNIT	ROOFTOP UNIT	ROOFTOP UNIT	ROOFTOP UNIT	ROOFTOP UNIT	ROOFTOP UNIT	CIRCULATION PUMP	PACKAGED TERMINAL AIR CONDITIONER	PACKAGED TERMINAL AIR CONDITIONER	EXHAUST FAN	ELECTRIC RE-HEAT COIL	ELECTRIC RE-HEAT COIL	EXHAUST FAN	PUMP
EQUIPMENT NO.	EH-1	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	CP-1	AC-1	AC-2	EF-1	EDH-1	EDH-2	EF-3	P-1
RATING/WATTS	18 KW	--	--	--	--	--	--	--	--	--	--	15 KW	3 KW	--	93 W
VOLTAGE	120	208	208	208	208	208	208	120	120	208	120	120	208	120	120
PHASE	1	3	3	3	3	3	3	1	1	3	1	1	1	1	1
AMPS	--	49.6 MCA	49.6 MCA	48.4 MCA	26.6 MCA	--	--	--	8.8 FLA	34.6 FLA	--	--	--	--	--
WIRE SIZE	2 #12	3 #6	3 #6	3 #6	3 #6	3 #6	3 #6	2 #12	2 #12	3 #8	2 #12	2 #12	2 #12	2 #12	2 #12
GROUND WIRE	1 #12	1 #10	1 #10	1 #10	1 #10	1 #10	1 #10	1 #12	1 #12	1 #10	1 #12	1 #12	1 #12	1 #12	1 #12
CONDUIT SIZE	3/4"	1"	1"	1"	1"	1"	1"	3/4"	3/4"	1"	3/4"	3/4"	3/4"	3/4"	3/4"
FUSE DISC. SW.	--	60	60	60	60	30	30	--	--	--	--	--	--	--	--
TYPE RK1 FUSES	--	60	60	60	35	30	30	--	--	--	--	--	--	--	--
NON-FUSE SW.	--	--	--	--	--	--	--	--	30	--	--	--	--	--	--
CAPACITOR(KVAR)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NOTES	2	1	1	1	1	1	1	2	6	1	2	6	6	2	2

- NOTES:
1. STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
 2. PROVIDE 20A/1P TOGGLE SWITCH DISCONNECT.
 3. PROVIDE COMBINATION STARTER & DISCONNECT (40A W/ (2) N.O. & N.C. CONTACTS).
 4. UNIT FURNISHED WITH VFD. PROVIDE SITE FUSED DISCONNECT WITH ELECTRICAL INTERLOCK (FACTORY INSTALLED).
 5. TIE-IN TO FIRE ALARM SYSTEM FOR AUTOMATIC OPERATION.
 6. STARTER & DISCONNECT PROVIDED WITH UNIT.
 7. INDOOR UNIT PROVIDED WITH INTEGRAL DISCONNECT. PROVIDE 30A/3P DISCONNECT FOR OUTDOOR UNIT.





MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
2	5/19/05	ADDENDA #2
3	6/3/05	ADDENDA #3



- REFERENCE NOTES:**
- 1. EXISTING COMMUNICATIONS MANHOLE TO REMAIN.
 - 2. EXISTING (4) 4" PVC SCHEDULE 40 CONDUITS, EXISTING (1) 24 STRAND MULTIMODE FIBER OPTIC CABLE AND EXISTING (1) 100 PAIR CATEGORY 3 CABLE TO EXISTING MANHOLE.
 - 3. EXISTING COMMUNICATIONS MANHOLE.
 - 4. NEW (2) 4" PVC SCHEDULE 40 CONDUIT, RUN (1) 6 STRAND MULTIMODE FIBER OPTIC CABLE AND (1) 25 PAIR CATEGORY 3 CABLE TO NEW BUILDING. SPLICE CABLES IN EXISTING MANHOLE (REFERENCE NOTE 3). EXTEND FIBER CABLE TO NEW LIU IN SERVER ROOM AND COPPER CABLE TO WALL FIELD. REFER TO SPECIFICATION SECTION 16715 FOR MORE INFORMATION.
 - 5. EXISTING PAD MOUNT TRANSFORMER.
 - 6. NEW UNDERGROUND SECONDARY TO C.T. CABINET. SEE SHEET E002.
 - 7. NEW C.T. CABINET AND METER.
 - 8. NEW UNDERGROUND FROM C.T. CABINET TO ELECTRICAL PANELS.
 - 9. EXISTING LOCATION OF STANDBY DIESEL GENERATOR SET THAT WILL BE RELOCATED UNDER ALTERNATE NO. 4.
 - 10. NEW LOCATION OF STANDBY DIESEL GENERATOR SET. TO BE RELOCATED UNDER ALTERNATE NO. 4.

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BUILDING NAME:

UTAH NATIONAL
GUARD
JLTC

PROJECT TITLE:

BUILDING #2

CAMP WILLIAMS
DRAPER, UT

MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
2	5/19/05	ADDENDA #2
3	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

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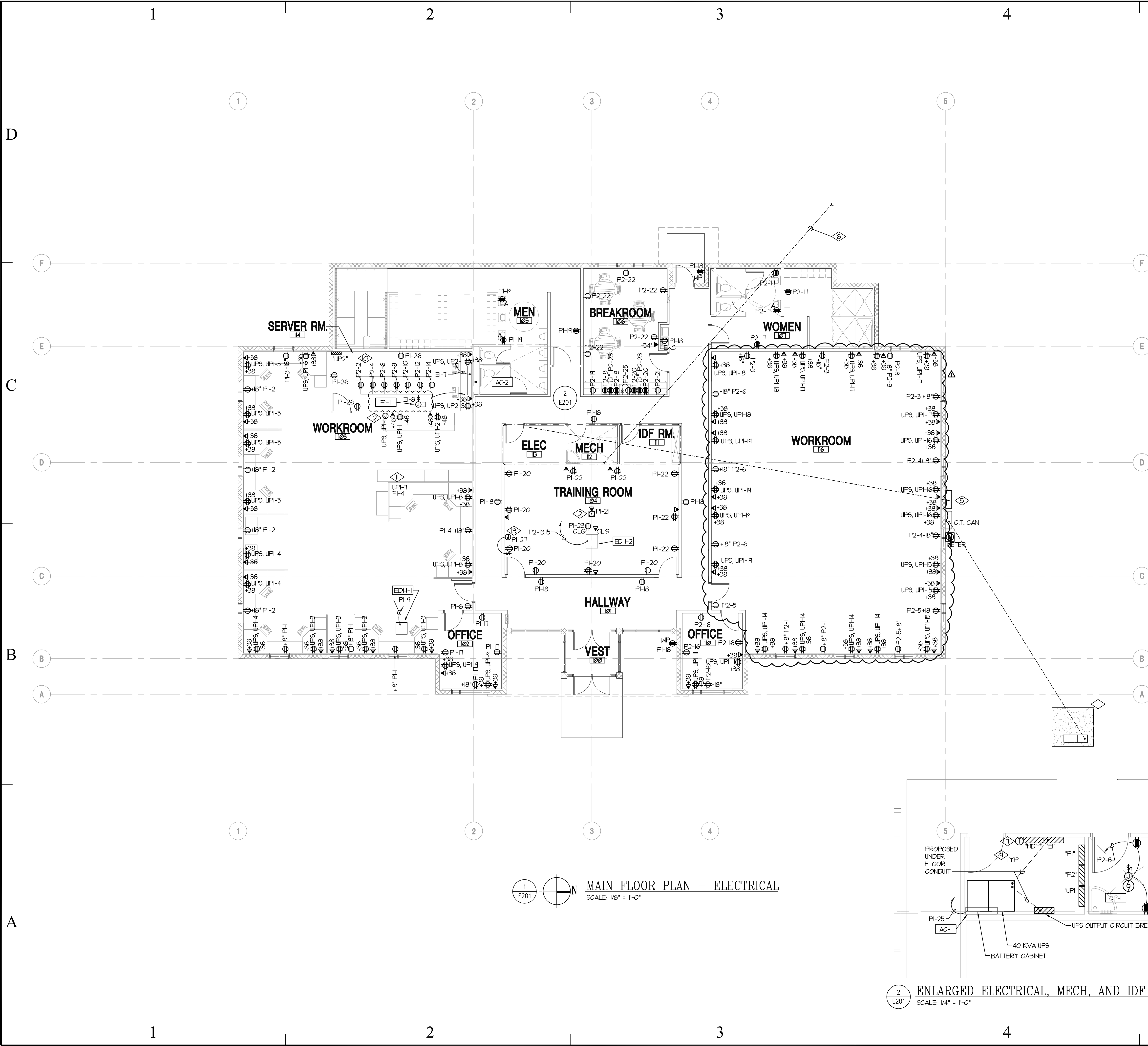
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SITE PLAN -
ELECTRICAL

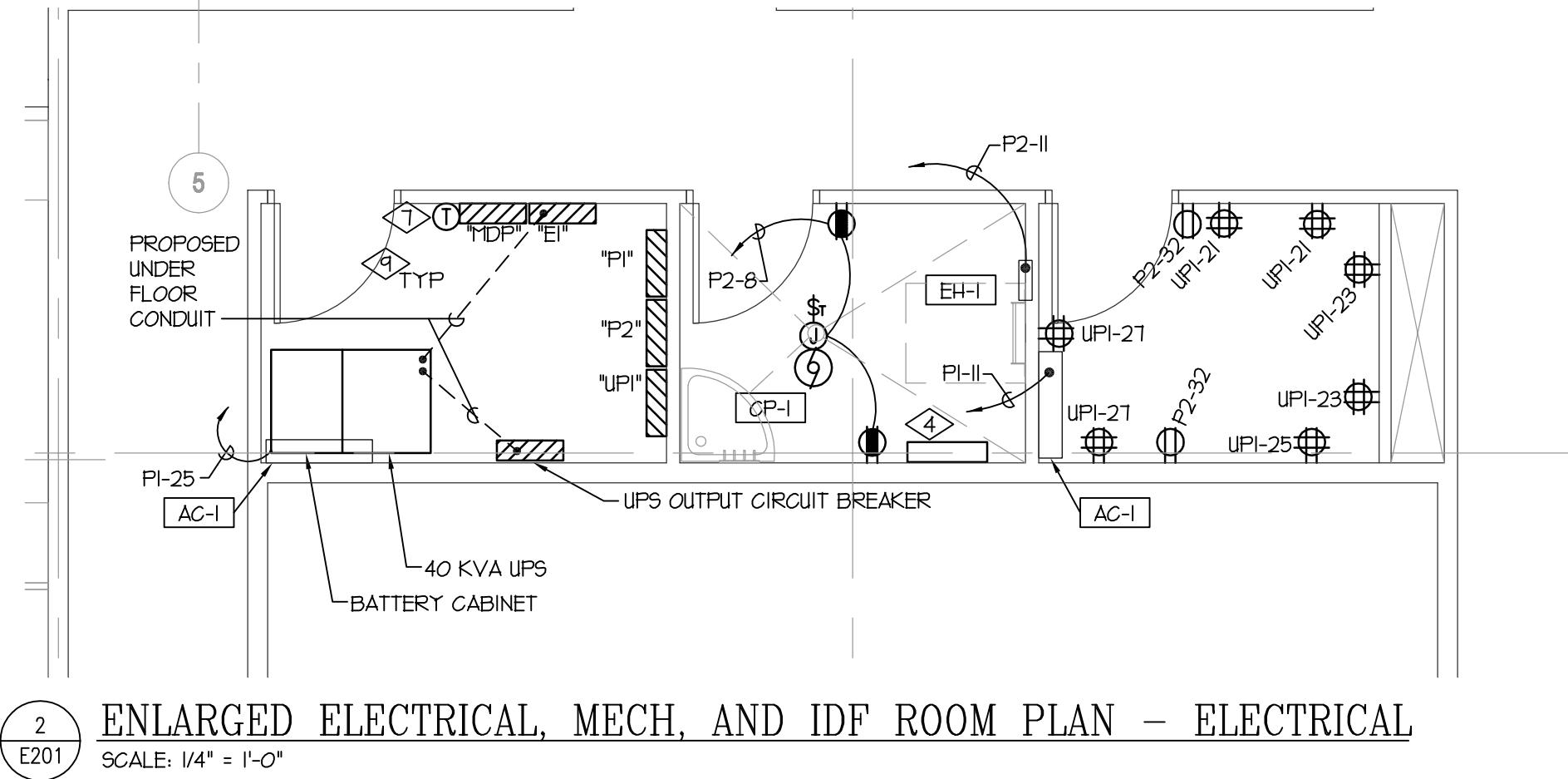
SHEET NUMBER

E101

SHEET 049 OF 055



- REFERENCE NOTES:**
- 1 EXISTING PAD MOUNTED TRANSFORMER.
 - 2 FURNISH AND INSTALL A WIREMOLD RFB-II FLOOR BOX WITH A REFINISHED CAST BRUSHED ALUMINUM FLUSH COVER. INSTALL (4) 120V/20A DUPLEX OUTLETS IN THE FLOOR BOX. RUN (2) 1" CONDUITS FROM THE COMMUNICATIONS SIDE TO THE TELECOMMUNICATIONS CLOSET. PROVIDE ADDITIONAL BRACKET PLATES AS REQUIRED FOR TELECOMMUNICATIONS OUTLET. VERIFY EXACT LOCATION WITH ARCHITECT.
 - 3 (NOT USED)
 - 4 UNDER THE BASE BID, FURNISH AND INSTALL A NEMA-1 ENCLOSURE ON THE WALL WHERE A FUTURE GENERATOR AUTOMATIC TRANSFER SWITCH MAY BE LOCATED TO FEED THE UPS SYSTEM. SEE SHEET E002 FOR MORE INFORMATION. THE ENCLOSURE SHALL HAVE A SCREEN COVER LID. PROVIDE ENOUGH SLACK IN THE CABLES (A MINIMUM OF 3'-0") TO ALLOW THE AUTOMATIC TRANSFER SWITCH TO BE INSTALLED IN THIS LOCATION IN THE FUTURE. UNDER ALTERNATE NO. 2 FURNISH AND INSTALL THE AUTOMATIC TRANSFER SWITCH.
 - 5 FURNISH AND INSTALL A NEMA-3R ENCLOSURE ON THE WALL WHERE A FUTURE GENERATOR AUTOMATIC TRANSFER SWITCH MAY BE LOCATED TO FEED THE ENTIRE BUILDING. SEE SHEET E002 FOR MORE INFORMATION. THE ENCLOSURE SHALL HAVE A FULL HINGED LOCKABLE DOOR. PROVIDE ENOUGH SLACK IN THE CABLES (A MINIMUM OF 6'-0") TO ALLOW THE AUTOMATIC TRANSFER SWITCH TO BE INSTALLED IN THIS LOCATION IN THE FUTURE.
 - 6 (1) 2-1/2" CONDUIT TO RELOCATED DIESEL GENERATOR. ALSO RUN (1) 1" CONDUIT FOR CONTROLS. SEE SHEET E002 FOR MORE INFORMATION.
 - 7 LINE VOLTAGE THERMOSTAT FOR EF-3 CONTROL. PROVIDED BY DIV. 15,000 AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - 8 NOT USED.
 - 9 LAYOUT OF ELECTRICAL ROOM IS SCHEMATIC ONLY. SUCCESSFUL BIDDER SHALL PROVIDE A FINAL LAYOUT FOR REVIEW SUBMIT TO ENGINEER. SEE GENERAL NOTE 12 ON SHEET E001.
 - 10 OUTLETS SHALL BE INSTALLED FLUSH WITH CEILING ABOVE RACK.
 - 11 TIE THE OUTLETS THAT ARE INTEGRAL TO THE WORKSTATION FURNITURE TO THE CIRCUITS INDICATED AT EACH STATION. LABEL THE OUTLETS TIED TO UPS POWER WITH ORANGE LABELS THAT INDICATE "COMPUTER LOADS ONLY" IN 1/4" LETTERS.
 - 12 TIE ELECTRIFIED WORK TABLE TO CIRCUIT SHOWN THROUGH A JUNCTION BOX IN THE WALL.
 - 13 INSTALL MOTORIZED PROJECTION SCREEN AND CONTROL SWITCH PROVIDED BY GENERAL CONTRACTOR. TIE TO CIRCUIT SHOWN.



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BUILDING NAME:

**UTAH NATIONAL
GUARD
JLTC**

PROJECT TITLE:

BUILDING #2

**CAMP WILLIAMS
DRAPER, UT**

MARK	DATE	DESCRIPTION
1	5/17/05	ADDENDA #1
2	5/19/05	ADDENDA #2
3	6/3/05	ADDENDA #3

ISSUE TYPE: STATE REVIEW SET

ISSUE DATE: APRIL 21, 2005

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CAD PROJECT NO: 0516
CAD DWG FILE:
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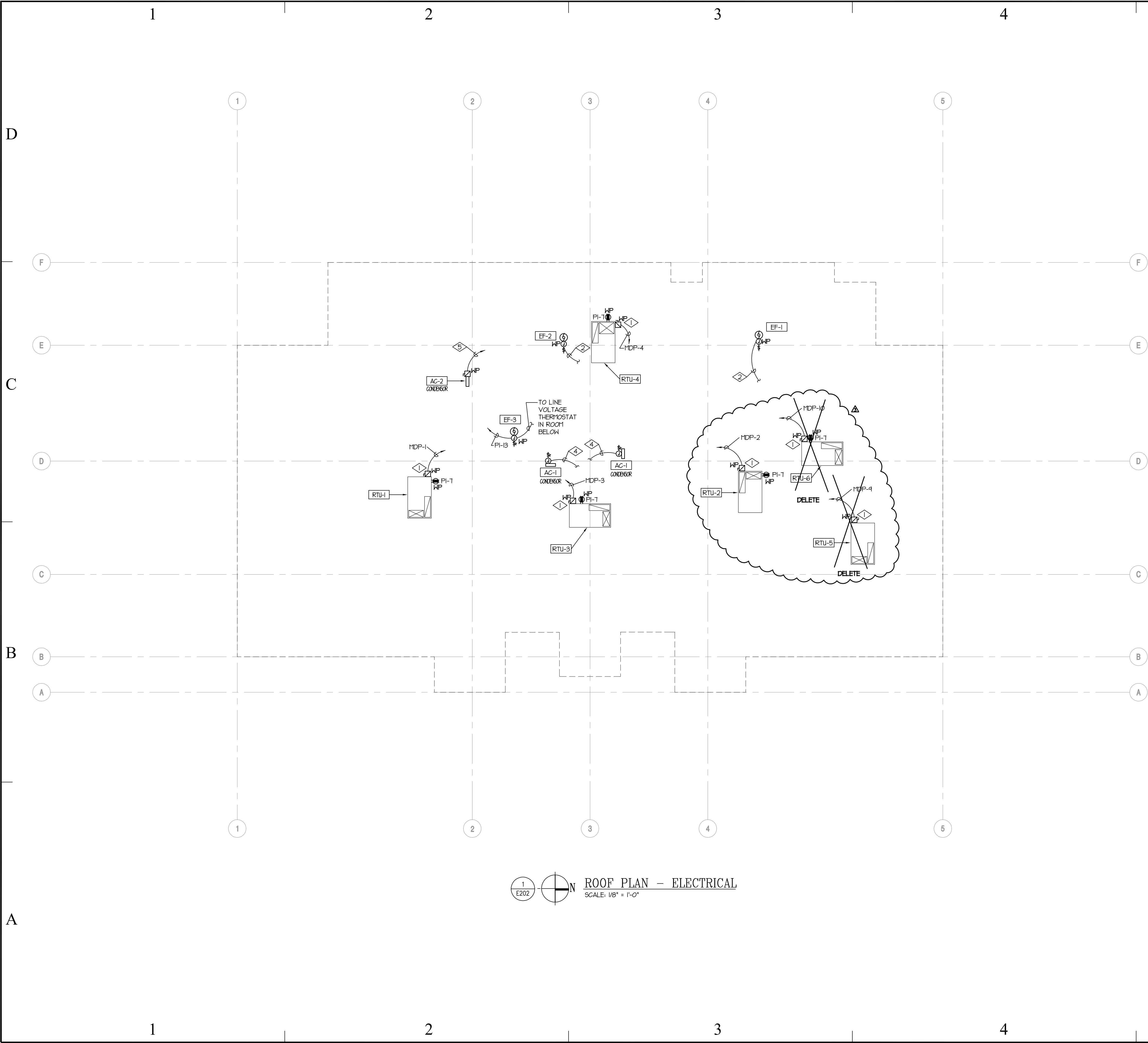
SHEET TITLE

**MAIN LEVEL FLOOR
PLAN - ELECTRICAL**

SHEET NUMBER

E2.01

SHEET 051 OF 055



- REFERENCE NOTES:**
- ① MOUNT DISCONNECT ON UNIT OR PROVIDE SEPARATE STEEL U-CHANNEL FRAME. VERIFY LOCATION WITH EQUIPMENT SUPPLIER.
 - ② TIE TO MOTION SENSOR CONTROLLED LIGHTING CIRCUIT IN RESTROOM BELOW.
 - ③ TIE TO THERMOSTAT IN ELECTRICAL ROOM BELOW.
 - ④ TIE TO AC-1 INDOOR UNIT IN ROOM BELOW.
 - ⑤ PROVIDE A 30A/3P NON-FUSED DISCONNECT FOR THE AC-2 CONDENSING UNIT. RUN (4) #10 AWG TO INDOOR UNIT.

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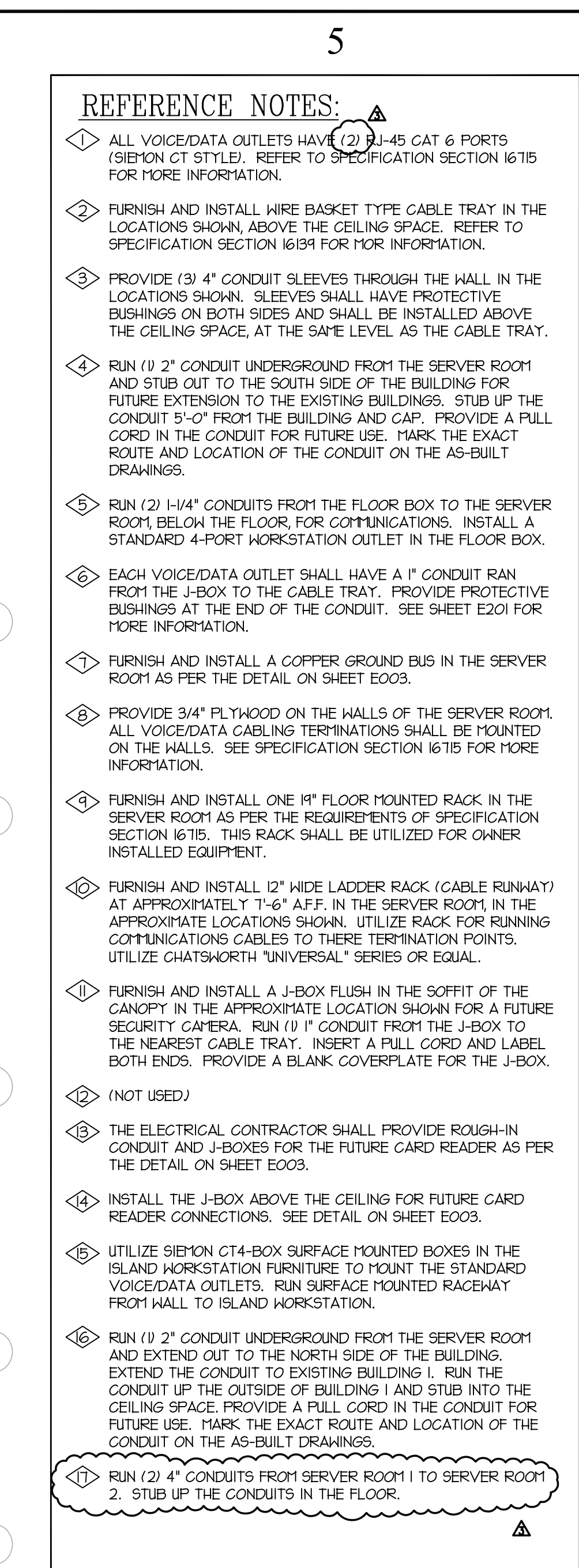
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ROOF
PLAN - ELECTRICAL

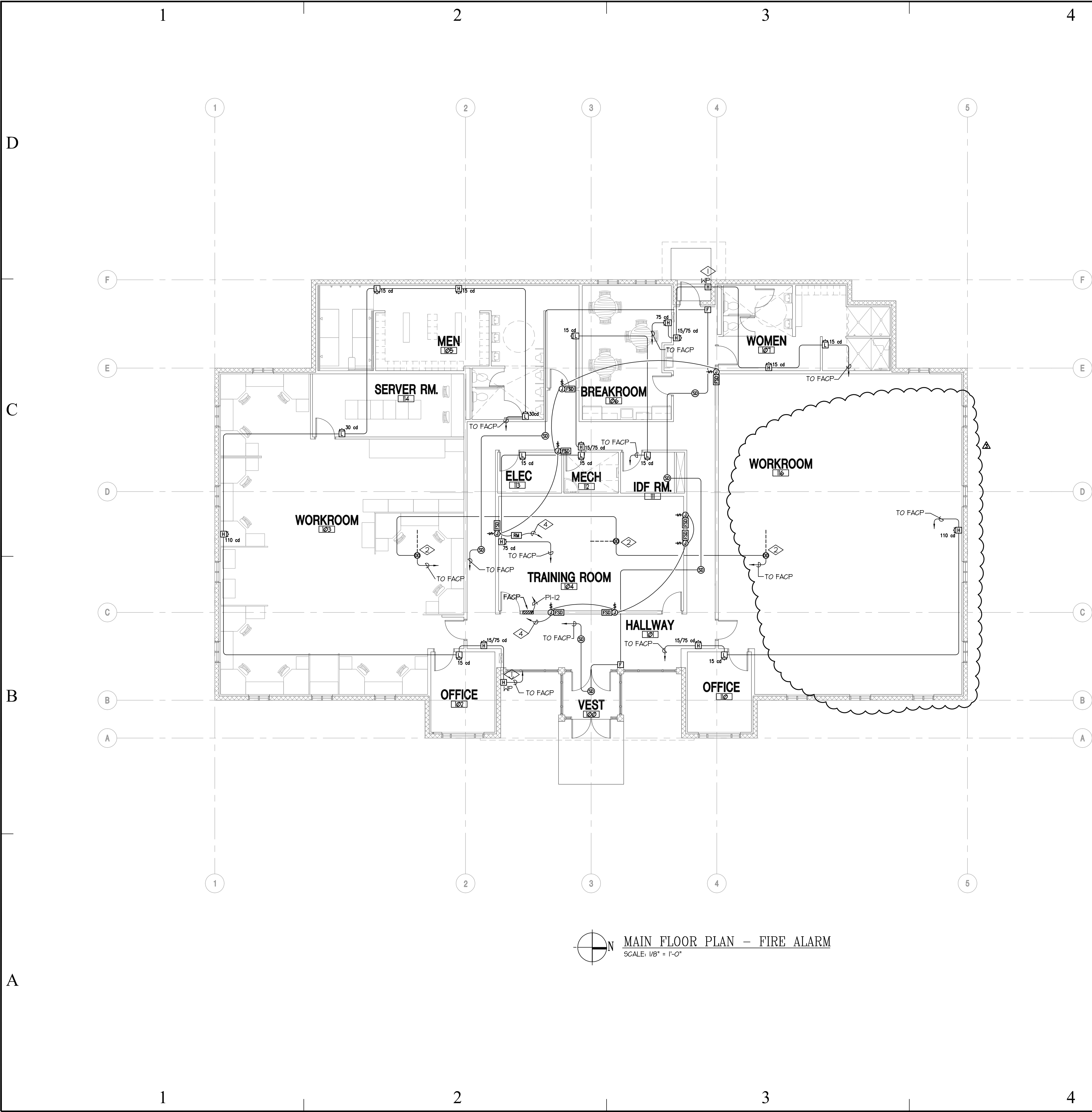
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E2.02

SHEET 052 OF 055

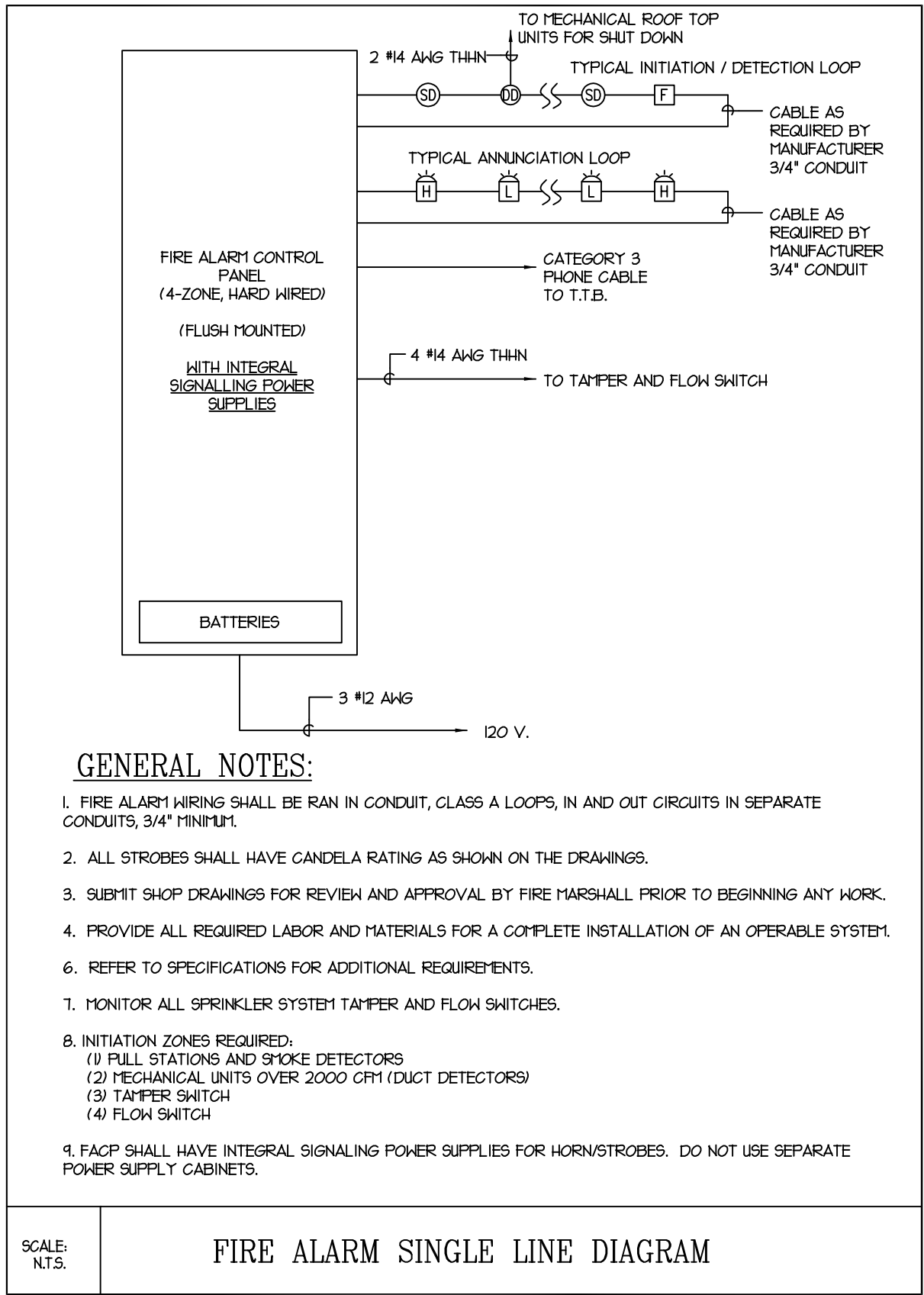


SHEET 053 OF 055



REFERENCE NOTES:

1. EXTERIOR HORNS SHALL BE FLUSH MOUNTED IN MASONRY.
2. DUCT DETECTOR WITH SAMPLING TUBE IN RETURN AIR DUCT OF ROOF TOP UNIT.
3. TIE FIRE/SMOKE DAMPERS TO CIRCUITS INDICATED THRU FIRE ALARM RELAY.
4. TIE THE FIRE SMOKE DAMPERS TO 120V POWER THROUGH A FIRE ALARM RELAY TO CLOSE THE DAMPERS UPON ALARM.



GENERAL NOTES:

1. FIRE ALARM WIRING SHALL BE RUN IN CONDUIT, CLASS A LOOPS, IN AND OUT CIRCUITS IN SEPARATE CONDUITS, 3/4" MINIMUM.
2. ALL STROBES SHALL HAVE CANDELA RATINGS AS SHOWN ON THE DRAWINGS.
3. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY FIRE MARSHALL PRIOR TO BEGINNING ANY WORK.
4. PROVIDE ALL REQUIRED LABOR AND MATERIALS FOR A COMPLETE INSTALLATION OF AN OPERABLE SYSTEM.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. MONITOR ALL SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES.
7. INITIATION ZONES REQUIRED:
 - (1) FULL STATIONS AND SMOKE DETECTORS
 - (2) MECHANICAL UNITS OVER 2000 CFM (DUCT DETECTORS)
 - (3) TAMPER SWITCH
 - (4) FLOW SWITCH
8. FACP SHALL HAVE INTEGRAL SIGNALING POWER SUPPLIES FOR HORN/STROBES. DO NOT USE SEPARATE POWER SUPPLY CABINETS.

SCALE:
N.T.S.

FIRE ALARM SINGLE LINE DIAGRAM

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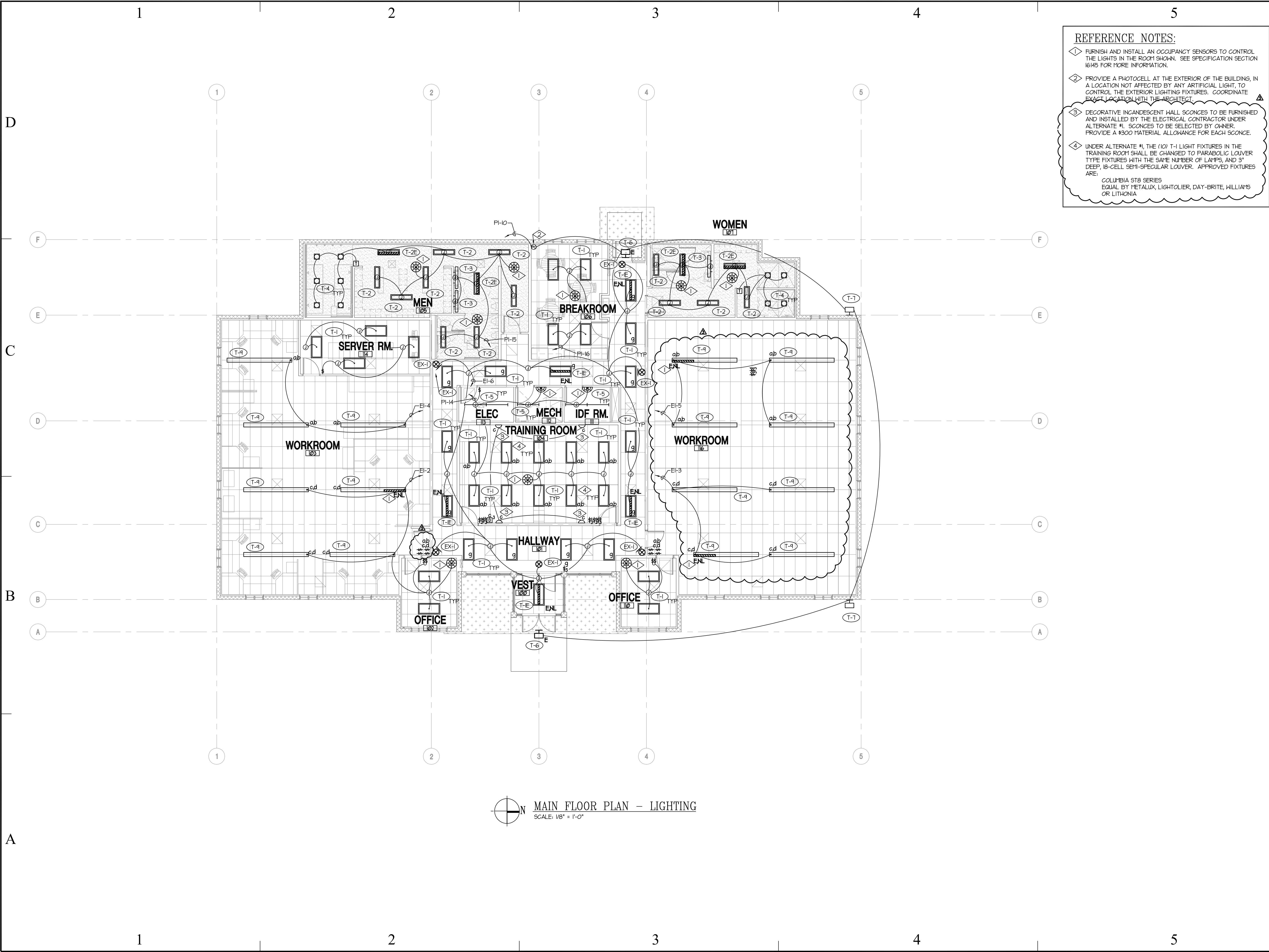
SHEET TITLE

MAIN LEVEL FLOOR
PLAN - FIRE ALARM

SHEET NUMBER

E4.01

SHEET 054 OF 055



REFERENCE NOTES:

- FURNISH AND INSTALL AN OCCUPANCY SENSORS TO CONTROL THE LIGHTS IN THE ROOM SHOWN. SEE SPECIFICATION SECTION 16145 FOR MORE INFORMATION.
- PROVIDE A PHOTOCELL AT THE EXTERIOR OF THE BUILDING, IN A LOCATION NOT AFFECTED BY ANY ARTIFICIAL LIGHT, TO CONTROL THE EXTERIOR LIGHTING FIXTURES. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
- DECORATIVE INCANDESCENT HALL SCONCES TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER ALTERNATE #1. SCONCES TO BE SELECTED BY OWNER. PROVIDE A \$300 MATERIAL ALLOWANCE FOR EACH SCONCE.
- UNDER ALTERNATE #1, THE (10) T-1 LIGHT FIXTURES IN THE TRAINING ROOM SHALL BE CHANGED TO PARABOLIC LOUVER TYPE FIXTURES WITH THE SAME NUMBER OF LAMPS, AND 3" DEEP, 18-CELL SEMI-SPECULAR LOUVER. APPROVED FIXTURES ARE:
COLUMBIA S78 SERIES
EQUAL BY METALUX, LIGHTOLIER, DAY-BRITE, WILLIAMS OR LITHONIA

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MAIN LEVEL FLOOR
PLAN - LIGHTING

SHEET NUMBER

E9.01

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